

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651120

Luminaire Tested: **GALN-SA9C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45431.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

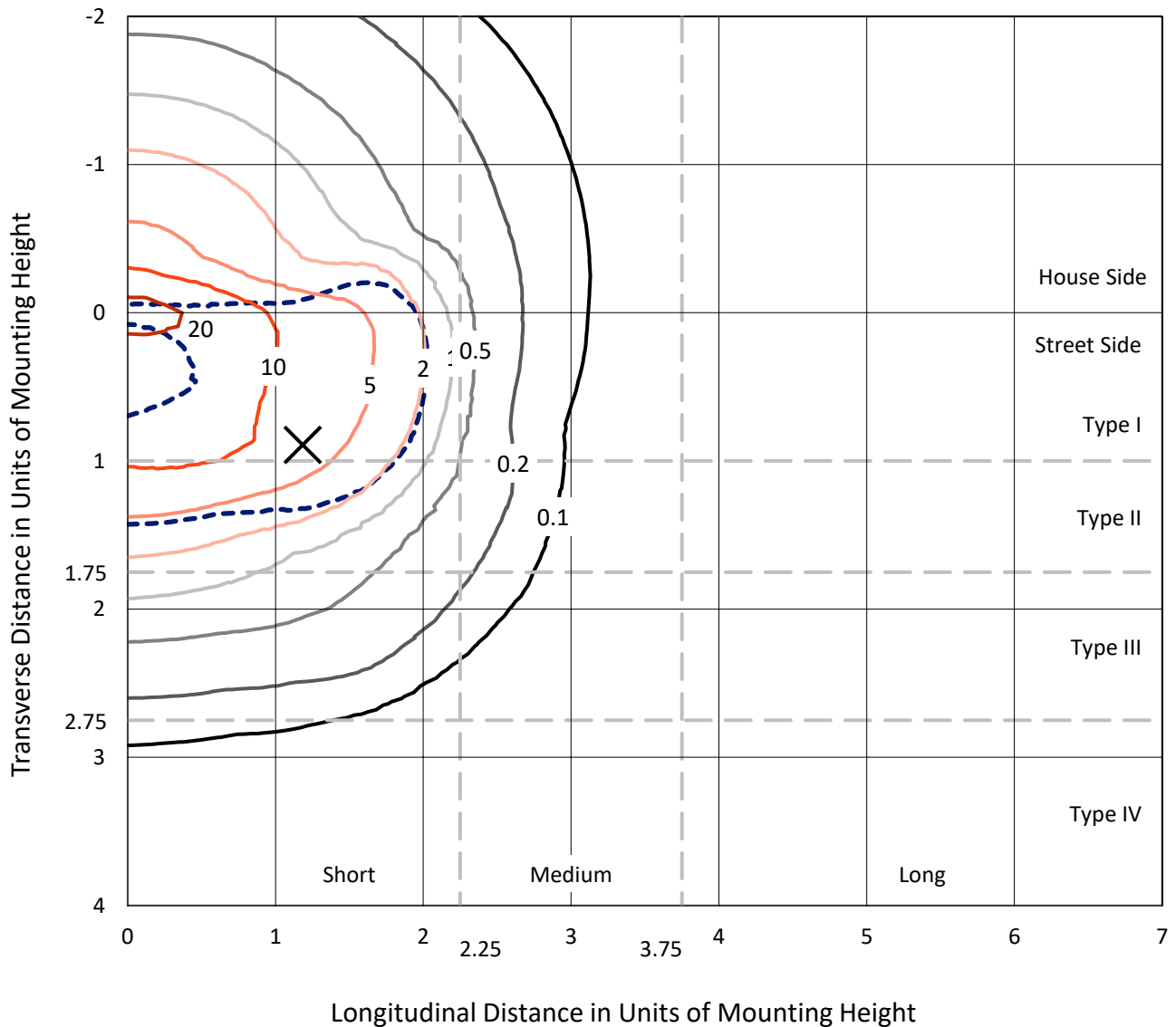
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

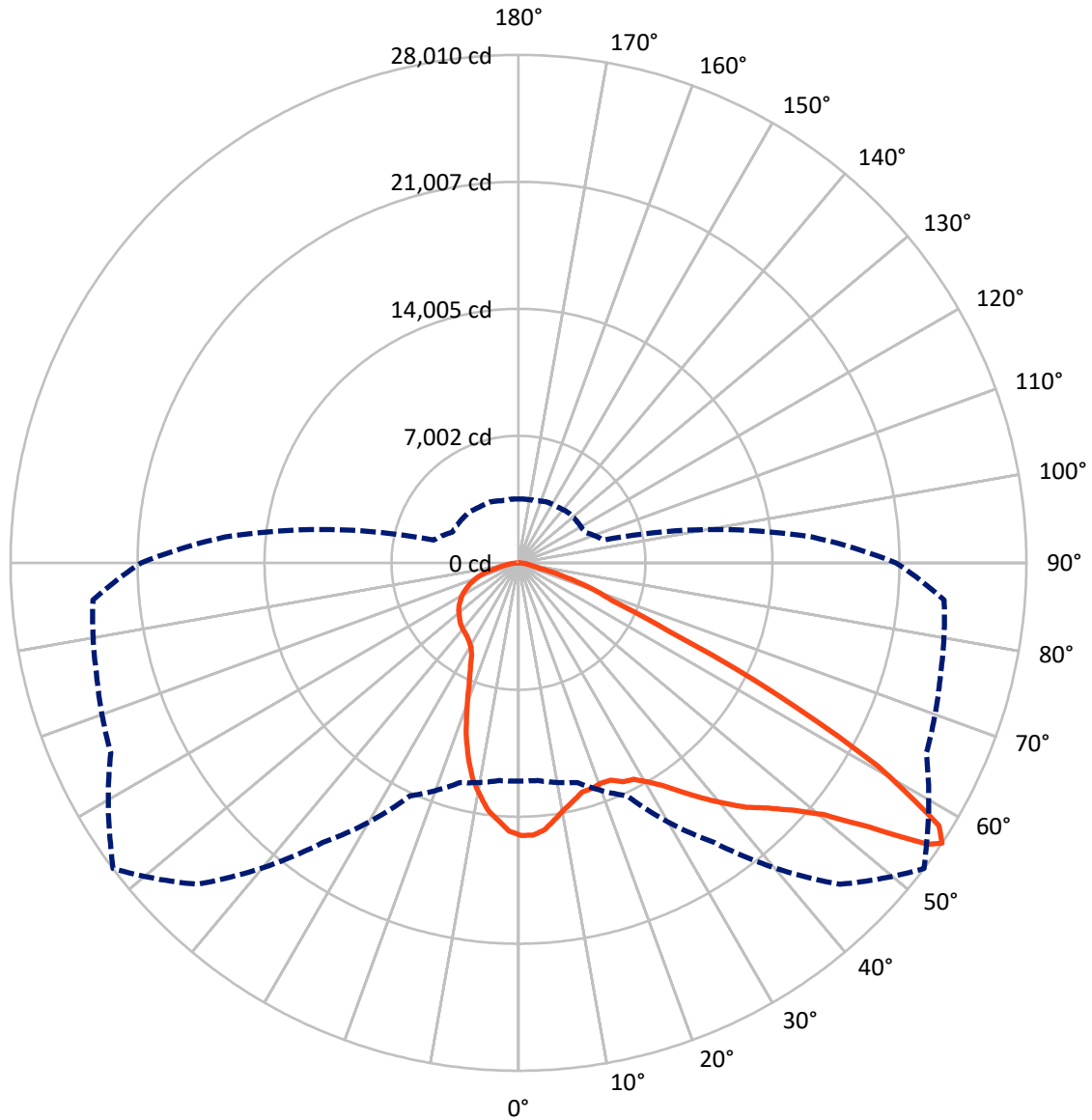
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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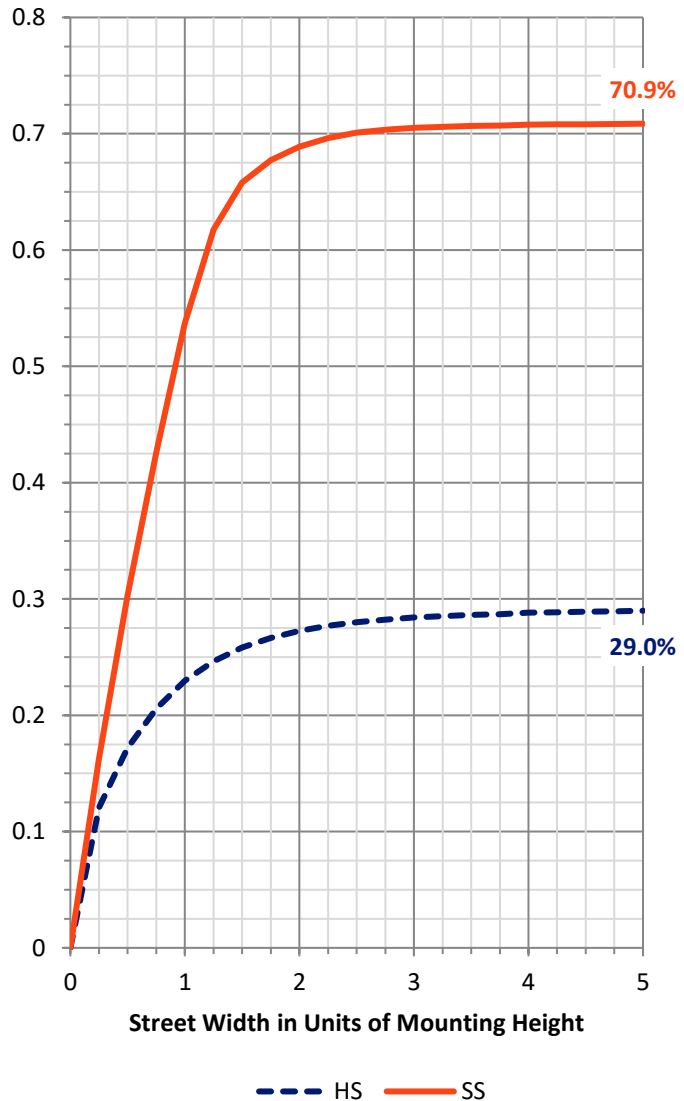
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13258.0	0.0	13258.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	32173.7	0.0	32173.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	45431.7	0.0	45431.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1330.6	2.9
10°-20°	3323.3	7.3
20°-30°	4900.6	10.8
30°-40°	7002.0	15.4
40°-50°	9637.3	21.2
50°-60°	11388.6	25.1
60°-70°	6069.4	13.4
70°-80°	1539.8	3.4
80°-90°	240.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45431.7	100.0
0°-180°	45431.7	100.0

Coefficient of Utilization



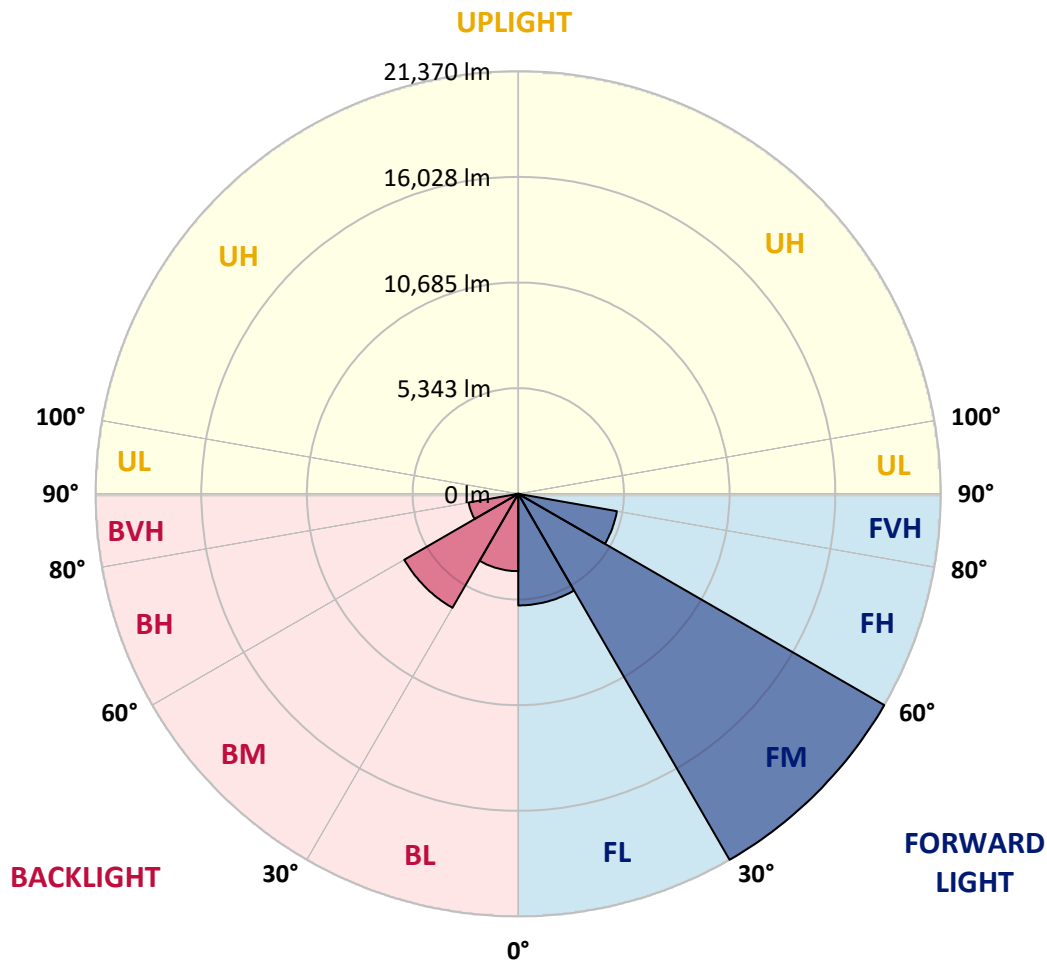
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5644.2	12.4			
FM (30°-60°)	21370.2	47.0			
FH (60°-80°)	5062.8	11.1			G3/7500
FVH (80°-90°)	96.5	0.2			G1/100
BL (0°-30°)	3910.3	8.6	B4/5000		
BM (30°-60°)	6657.7	14.7	B4/8500		
BH (60°-80°)	2546.4	5.6	B4/5000		G4/5000
BVH (80°-90°)	143.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6
2.5°	14844.1	14715.9	14791.6	14762.5	15001.4	15071.4	15036.4	15065.6	15199.6	15135.5	15001.4
5°	13870.8	14051.4	14086.4	14173.9	14313.7	14587.6	14803.3	14861.6	14925.6	15222.9	15193.8
7.5°	12985.0	13107.3	13043.2	13299.7	13602.7	14045.6	14307.9	14354.5	14943.1	15106.4	15228.7
10°	12425.4	12303.1	12594.5	12664.4	13008.3	13515.3	13830.0	14022.3	14558.6	15205.4	15281.2
12.5°	11906.7	11865.9	12040.8	12238.9	12623.6	13148.1	13468.7	13544.4	14372.0	15053.9	15409.4
15°	11522.1	11475.4	11650.3	11796.0	12244.8	12711.0	13119.0	13334.6	14168.0	14966.4	15298.7
17.5°	11219.0	11213.2	11312.3	11574.5	12035.0	12425.4	13084.0	13095.6	14063.1	15100.5	15391.9
20°	11201.5	11195.7	11213.2	11504.6	11924.2	12402.1	12973.3	13078.2	14063.1	15007.3	15397.8
22.5°	11347.3	11254.0	11358.9	11545.4	11848.4	12442.9	13014.1	13247.2	14401.1	15467.7	15660.0
25°	11580.4	11603.7	11662.0	11726.1	11900.9	12536.2	13375.4	13567.8	14797.5	15864.0	16021.4
27.5°	12005.8	11994.2	12017.5	12052.5	12204.0	12623.6	13521.1	14016.5	15625.0	16569.2	16411.9
30°	12629.4	12588.6	12681.9	12804.2	12664.4	12903.4	14004.8	14377.8	16394.4	17280.2	16848.9
32.5°	13194.7	13346.2	13521.1	13573.6	13404.5	13451.2	14645.9	15024.7	17035.5	18154.4	17385.2
35°	13900.0	14022.3	14255.5	14418.6	14389.5	14249.7	15520.2	16021.4	17962.1	18795.5	17950.5
37.5°	14587.6	14733.3	15118.0	15601.7	15333.6	15269.5	16452.7	16866.4	18247.7	19139.4	18364.2
40°	15695.0	15689.2	16353.6	16604.2	16843.1	16732.4	17420.1	17560.0	18399.2	19063.6	18375.9
42.5°	16994.7	16913.0	17589.1	17979.6	18288.5	18300.2	18428.3	18381.7	18469.1	18678.9	18253.5
45°	18230.2	18405.0	19086.9	19786.3	20095.2	20130.2	19279.3	19191.8	18591.6	18568.2	18020.4
47.5°	19739.7	19780.5	20339.9	21260.8	21977.6	21732.9	20380.7	20188.5	19127.7	19308.4	18410.8
50°	19827.1	20130.2	20631.3	21715.4	23918.4	23854.3	21808.6	21447.3	19990.2	20357.4	19500.7
52.5°	17997.1	17927.1	18521.6	20293.3	23772.7	25964.0	24174.8	23312.3	21843.6	21563.8	21266.6
55°	13713.4	13876.7	14401.1	16190.3	20643.0	25993.2	27397.8	26692.6	23825.1	23347.3	23003.4
56°	12029.2	12052.5	12547.8	14179.7	18836.3	25066.5	28009.7	27438.6	24810.1	24081.5	23557.1
57.5°	9971.8	9837.8	10094.2	10985.9	15898.9	23108.3	27339.5	27898.9	25964.0	24874.2	24145.7
60°	7850.4	7821.3	7716.3	7879.6	10047.6	17408.4	22758.6	24017.4	25847.5	24128.2	23125.7
62.5°	6410.9	6265.2	6474.9	6708.1	6982.0	10799.4	15992.2	16732.4	20520.7	19261.8	17373.5
65°	4971.3	4901.4	5163.7	5921.3	6084.5	6859.6	9109.3	9680.4	12116.5	11900.9	10478.9
67.5°	3421.1	3432.7	3660.0	4814.0	5641.6	5571.6	5577.4	5874.7	6323.5	4697.4	4091.3
70°	2168.0	2162.2	2284.6	3100.5	4540.1	4586.7	4353.6	4266.1	4044.7	2447.8	2593.5
72.5°	1392.9	1352.1	1416.2	1713.5	2348.7	2715.8	2797.5	2849.9	2342.9	1923.3	2086.4
75°	786.8	746.0	722.7	798.4	926.7	1072.4	1177.2	1212.2	1358.0	1457.0	1544.4
77.5°	238.9	215.6	262.2	349.7	460.4	617.8	751.9	775.1	915.0	1031.6	1119.0
80°	104.9	116.6	163.2	233.1	326.4	437.1	530.3	565.3	658.6	746.0	769.3
82.5°	64.1	70.0	110.8	157.4	227.3	308.9	378.8	390.5	483.7	553.6	571.1
85°	23.3	29.1	58.3	93.3	145.7	198.1	198.1	215.6	198.1	198.1	215.6
87.5°	0.0	0.0	5.8	11.7	11.7	17.5	23.3	23.3	29.1	35.0	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6	15030.6
2.5°	15071.4	15042.2	14995.6	14826.6	14809.1	14756.7	14465.3	14418.6	14465.3	14325.4	14337.0
5°	15042.2	15129.7	14780.0	14610.9	14296.2	14068.9	13806.7	13672.6	13433.7	13282.2	13451.2
7.5°	15170.5	15135.5	14698.4	14331.2	13859.2	13282.2	12821.7	12559.5	12139.8	12023.3	12110.7
10°	15123.9	14937.3	14424.5	13940.8	13049.0	12542.0	11796.0	11073.4	10677.0	10473.1	10443.9
12.5°	15059.7	15007.3	14150.6	13317.2	12378.8	11312.3	10263.2	9581.3	8934.4	8654.6	8695.4
15°	15135.5	14692.5	13637.7	12582.8	11335.6	9936.8	8806.2	7926.2	7477.4	7296.8	7296.8
17.5°	15100.5	14541.1	13392.9	11761.0	10181.7	8526.5	7285.1	6754.7	6568.2	6568.2	6620.7
20°	15118.0	14640.1	12897.5	10939.3	8817.9	7180.2	6276.8	6084.5	6166.1	6195.2	6224.4
22.5°	15217.1	14313.7	12413.7	10035.9	7553.2	6142.7	5699.9	5705.7	5851.3	6008.8	5979.6
25°	15339.5	14185.5	11825.1	9138.4	6585.7	5635.7	5495.9	5478.4	5589.1	5670.7	5682.4
27.5°	15234.5	13964.0	11224.8	8019.4	5793.1	5297.7	5268.6	5280.2	5315.2	5478.4	5426.0
30°	15578.4	14028.1	10473.1	7081.1	5356.0	5187.0	5152.1	5134.6	5187.0	5233.6	5192.8
32.5°	16003.9	13800.9	9913.5	6177.7	5140.4	5105.4	5035.5	5012.1	5041.3	4994.6	5018.0
35°	16190.3	13760.1	9185.1	5530.8	4971.3	4942.2	4901.4	4895.5	4901.4	4860.6	4825.7
37.5°	16295.3	13952.4	8351.6	5233.6	4866.4	4895.5	4802.4	4790.7	4685.8	4709.1	4726.6
40°	16475.9	13655.1	7675.6	4948.0	4802.4	4744.1	4662.4	4644.9	4575.0	4534.3	4575.0
42.5°	16213.7	13567.8	7011.2	4825.7	4709.1	4644.9	4586.7	4487.6	4464.3	4429.3	4406.0
45°	16003.9	13066.5	6416.7	4674.1	4598.3	4563.4	4452.7	4347.7	4260.3	4295.3	4242.8
47.5°	16161.2	12891.7	5828.0	4545.9	4446.8	4406.0	4295.3	4213.7	4126.3	4085.5	4073.8
50°	16790.6	13218.1	5332.7	4452.7	4318.6	4295.3	4149.6	4056.3	3974.7	3945.6	3957.2
52.5°	18294.3	14109.7	4994.6	4260.3	4196.2	4091.3	4009.7	3893.2	3840.7	3747.4	3805.7
55°	20200.1	15560.9	4907.2	4079.6	4044.7	3951.4	3840.7	3753.3	3654.2	3578.5	3561.0
56°	20812.1	16254.5	4837.3	4009.7	3951.4	3899.0	3753.3	3700.8	3543.5	3526.0	3514.3
57.5°	21307.4	16866.4	4849.0	3875.7	3817.4	3770.8	3683.3	3555.2	3450.2	3386.1	3415.2
60°	20188.5	15788.3	4627.5	3671.7	3660.0	3572.6	3450.2	3391.9	3263.8	3188.0	3170.5
62.5°	15007.3	10717.8	3753.3	3409.4	3403.6	3310.3	3170.5	3106.3	3083.0	2978.1	2978.1
65°	8643.0	6719.8	3246.3	3193.8	3147.2	3053.9	2914.1	2861.6	2803.3	2768.3	2739.2
67.5°	3689.1	3485.2	2949.0	2943.2	2890.7	2774.1	2634.3	2552.7	2476.9	2407.0	2441.9
70°	2675.1	2715.8	2663.4	2634.3	2570.2	2424.4	2302.1	2203.0	2086.4	2039.8	2074.8
72.5°	2121.4	2208.8	2284.6	2290.5	2214.7	2045.6	1911.6	1777.5	1649.4	1585.2	1614.4
75°	1608.6	1666.9	1742.6	1760.0	1649.4	1532.8	1404.6	1264.7	1165.6	1089.9	1101.5
77.5°	1159.8	1148.1	1218.1	1206.4	1153.9	1072.4	955.8	827.5	716.9	646.9	652.8
80°	792.6	810.1	850.9	845.0	781.0	728.5	641.1	536.2	454.6	396.3	384.7
82.5°	553.6	582.8	617.8	588.6	536.2	483.7	419.7	343.9	279.7	233.1	221.4
85°	198.1	227.3	262.2	279.7	297.2	285.6	238.9	192.3	139.9	116.6	110.8
87.5°	40.8	46.6	52.5	52.5	52.5	46.6	40.8	40.8	35.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)