

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: P532518

Luminaire Tested: **GALN-SA7D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35742 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

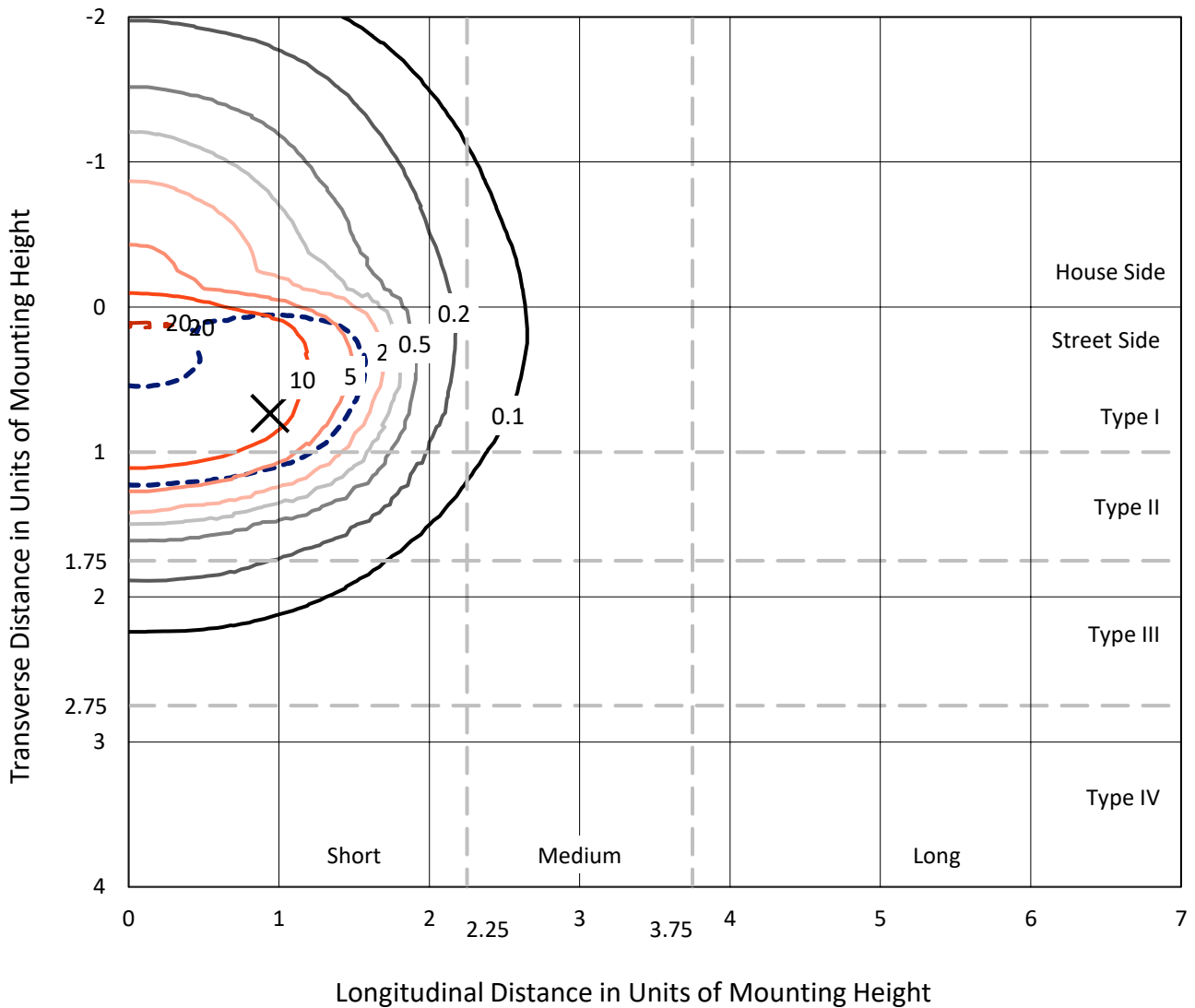
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

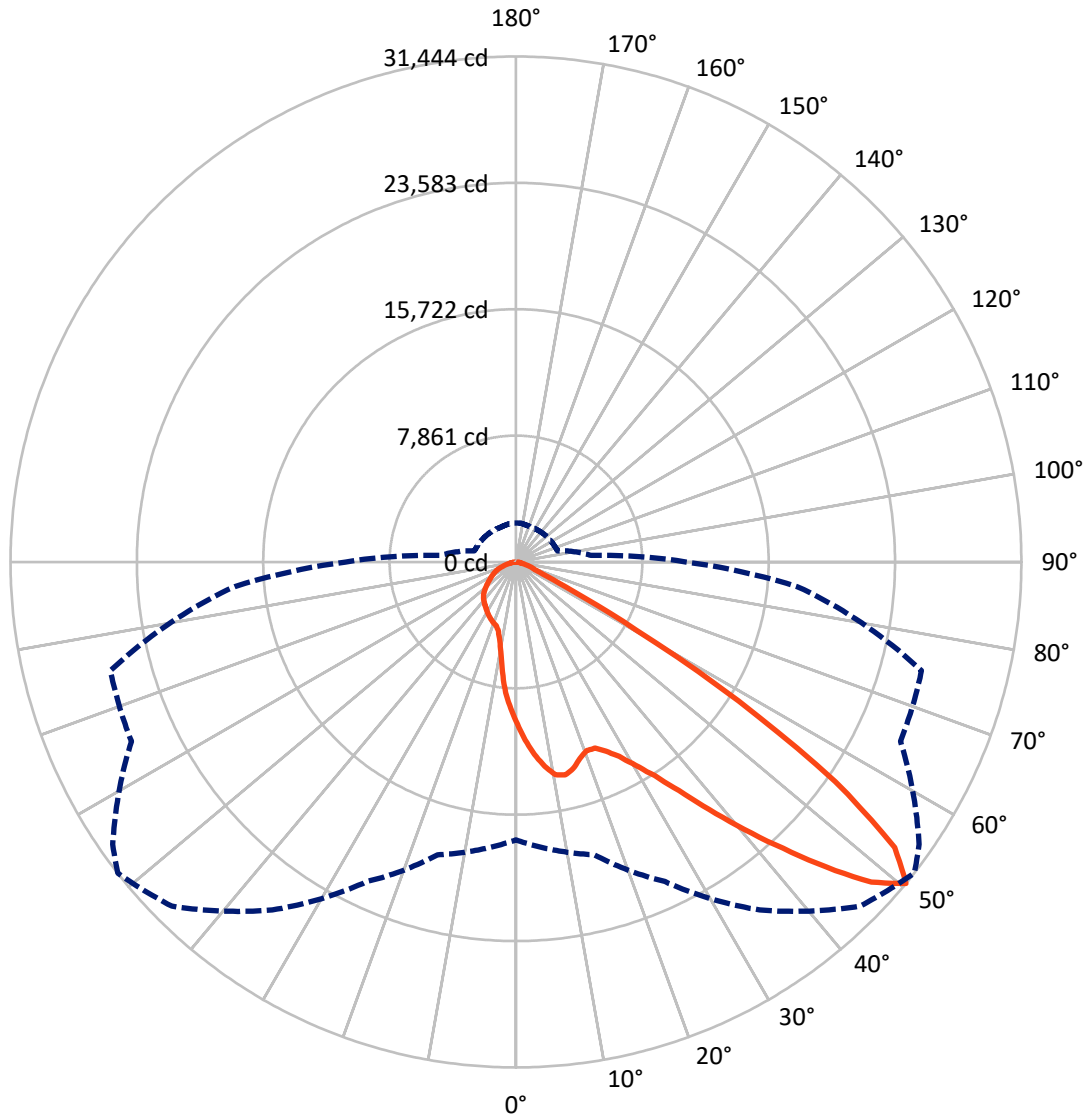
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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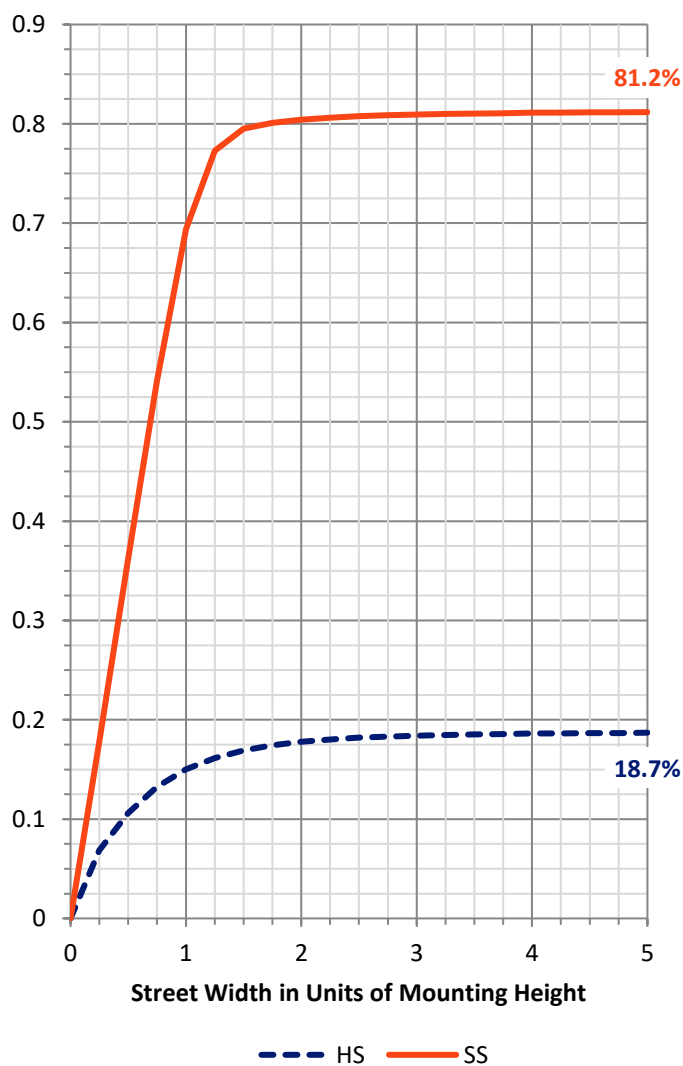
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.7	0.0	6718.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29023.3	0.0	29023.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	35742.0	0.0	35742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.6	2.6
10°-20°	2488.9	7.0
20°-30°	4192.5	11.7
30°-40°	7035.4	19.7
40°-50°	10762.4	30.1
50°-60°	7846.6	22.0
60°-70°	1746.3	4.9
70°-80°	629.9	1.8
80°-90°	111.5	0.3
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°	35742.0	100.0
0°-180°	35742.0	100.0

Coefficient of Utilization



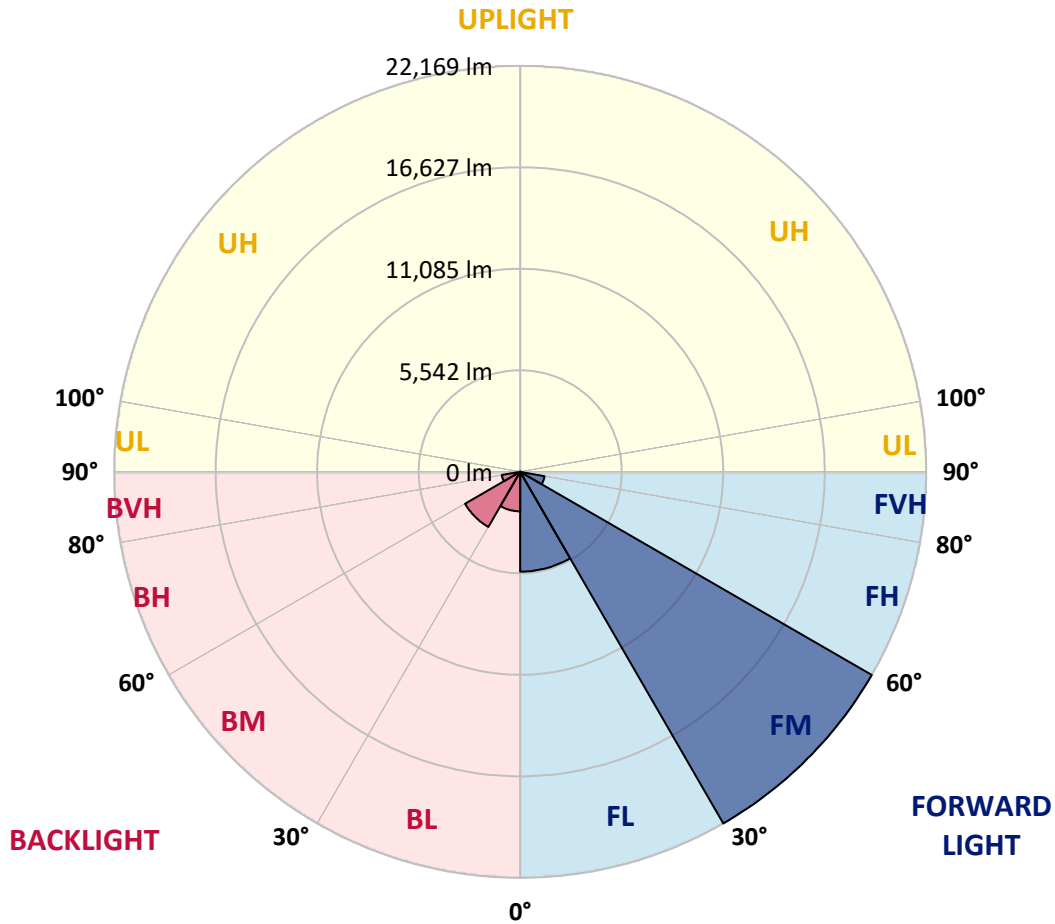
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5451.9	15.3			
FM (30°-60°)	22169.0	62.0			
FH (60°-80°)	1352.5	3.8			G1/1800
FVH (80°-90°)	50.0	0.1			G1/100
BL (0°-30°)	2158.2	6.0	B3/2500		
BM (30°-60°)	3475.4	9.7	B3/5000		
BH (60°-80°)	1023.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	61.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1
2.5°	11862.7	11634.4	11660.2	11496.5	11319.9	11268.2	11087.3	10915.0	10785.8	10510.1	10256.0
5°	12965.4	12896.4	12793.1	12663.8	12530.3	12202.9	12017.7	11802.4	11328.5	10902.1	10480.0
7.5°	13124.7	13111.8	13167.8	13167.8	13215.2	13090.3	12827.5	12676.8	12172.8	11479.3	10695.3
10°	12004.8	12043.6	12314.9	12668.1	13159.2	13499.5	13456.4	13417.6	12866.3	11918.7	10949.5
12.5°	11113.2	11027.0	11186.4	11487.9	12224.5	13047.2	13602.9	13607.2	13465.0	12620.8	11134.7
15°	10609.2	10669.5	10712.6	10854.7	11410.4	12362.3	13340.1	13628.7	14253.3	13116.1	11427.6
17.5°	10932.3	10729.8	10721.2	10755.7	11039.9	11755.0	12853.4	13348.7	14684.0	13753.6	11789.4
20°	11354.4	11350.1	11229.5	11186.4	11182.1	11819.6	12534.6	13206.6	14912.3	14580.6	12155.6
22.5°	12095.3	12095.3	11897.1	11802.4	11599.9	12121.1	12577.7	13034.3	15291.4	15149.2	12332.2
25°	13335.8	13133.4	12793.1	12560.5	12444.2	12629.4	13034.3	13443.5	15623.0	15752.3	12698.3
27.5°	14481.6	14162.8	13994.8	13594.2	13439.2	13331.5	13701.9	14115.4	16010.7	16691.3	12896.4
30°	15782.4	15726.4	15424.9	14908.0	14524.7	14326.5	14666.8	15076.0	16721.4	17651.8	13353.0
32.5°	18108.4	17600.2	17191.0	16557.8	15933.2	15511.1	15847.0	16118.4	17901.7	18655.5	13852.7
35°	20619.7	20456.0	19749.6	18608.1	17651.8	17272.8	17470.9	17673.4	19275.7	20188.9	14692.6
37.5°	23087.8	22863.8	22282.3	21321.8	20158.8	19387.7	19529.9	19766.8	20817.8	22256.5	15717.8
40°	24862.5	24586.8	24293.9	24151.8	22997.4	21942.0	21860.2	21920.5	22902.6	24194.8	16855.0
42.5°	24991.7	25332.0	25422.4	25995.3	25724.0	24858.2	24354.2	24367.1	24892.6	26111.6	18005.1
45°	24720.3	24405.9	25073.5	26637.1	27533.1	27938.0	27089.4	26981.7	26124.6	27223.0	18577.9
47.5°	21873.1	21959.3	23087.8	25560.3	28149.1	29958.2	29760.0	29402.5	26783.6	27184.2	18487.5
50°	17290.0	17811.2	18857.9	21937.7	26426.1	30276.9	31444.2	30617.2	26391.6	26115.9	17565.7
52.5°	11513.8	11729.1	12418.3	16394.1	21248.5	27063.6	29505.9	29695.4	26029.8	24716.0	16398.4
55°	5125.8	5108.6	6077.8	8563.2	13331.5	20593.8	24108.7	25263.1	24638.5	23290.3	15261.2
57.5°	2170.9	2244.2	2640.5	3700.1	6555.9	12426.9	16333.8	17346.0	18948.4	19125.0	11707.6
60°	1468.8	1477.4	1585.1	1852.2	2743.8	5836.6	8567.5	9782.2	10927.9	10850.4	6211.3
62.5°	1154.4	1184.5	1266.4	1374.1	1628.2	2649.1	3833.6	4509.9	4583.1	3855.1	2356.2
65°	986.4	990.7	1072.5	1163.0	1275.0	1542.1	1847.9	1882.3	1903.9	1835.0	1731.6
67.5°	814.1	822.7	887.3	990.7	1094.1	1180.2	1266.4	1309.5	1408.5	1602.4	1576.5
70°	646.1	659.0	715.0	801.2	895.9	947.6	1055.3	1094.1	1184.5	1335.3	1395.6
72.5°	491.0	495.4	542.7	603.0	689.2	740.9	831.3	874.4	934.7	1063.9	1119.9
75°	353.2	366.1	400.6	430.7	443.7	478.1	564.3	611.7	697.8	753.8	758.1
77.5°	185.2	193.8	202.4	202.4	245.5	310.1	366.1	392.0	452.3	495.4	473.8
80°	73.2	77.5	99.1	133.5	172.3	224.0	262.8	275.7	327.4	353.2	366.1
82.5°	43.1	47.4	64.6	94.8	124.9	159.4	189.5	202.4	236.9	267.1	275.7
85°	21.5	25.8	38.8	60.3	81.8	99.1	94.8	90.5	90.5	86.1	90.5
87.5°	8.6	8.6	12.9	12.9	12.9	17.2	21.5	21.5	21.5	25.8	25.8
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°	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1	10075.1
2.5°	10088.0	9915.7	9756.3	9463.4	9144.7	9054.2	8683.8	8550.2	8455.5	8343.5	8309.0
5°	10139.7	9911.4	9398.8	8808.7	8339.2	7736.1	7339.9	6913.4	6603.3	6525.8	6504.2
7.5°	10247.4	9855.4	8972.4	8080.7	7120.2	6301.8	5677.2	5341.2	5044.0	5026.8	4996.6
10°	10368.0	9687.4	8507.2	7107.3	5879.6	5121.5	4746.8	4600.3	4527.1	4509.9	4501.3
12.5°	10467.1	9652.9	7986.0	6159.6	5000.9	4544.3	4432.3	4419.4	4449.6	4458.2	4475.4
15°	10510.1	9515.1	7357.1	5311.1	4453.9	4285.9	4333.3	4385.0	4406.5	4462.5	4419.4
17.5°	10592.0	9338.5	6581.8	4639.1	4148.1	4178.2	4260.0	4320.4	4354.8	4393.6	4337.6
20°	10635.0	9179.1	5853.8	4238.5	4040.4	4096.4	4208.4	4255.7	4298.8	4316.0	4251.4
22.5°	10596.3	8851.8	5212.0	3915.5	3937.0	4010.2	4109.3	4161.0	4135.1	4066.2	4027.4
25°	10492.9	8390.9	4544.3	3708.7	3790.5	3919.8	3997.3	3958.5	3911.1	3872.4	3859.5
27.5°	10488.6	7826.6	4061.9	3519.2	3665.6	3842.2	3816.4	3781.9	3803.5	3773.3	3738.8
30°	10510.1	7279.6	3665.6	3411.5	3575.2	3661.3	3691.5	3657.0	3682.9	3626.9	3644.1
32.5°	10398.1	6745.4	3407.2	3286.6	3467.5	3463.2	3562.2	3588.1	3527.8	3411.5	3428.7
35°	10445.5	6314.7	3187.5	3230.6	3346.9	3346.9	3424.4	3394.3	3234.9	3166.0	3183.2
37.5°	10772.9	5892.6	3079.8	3153.0	3230.6	3265.0	3239.2	3110.0	3071.2	3071.2	3079.8
40°	11083.0	5530.7	3015.2	3135.8	3122.9	3144.4	2954.9	2967.8	2967.8	2972.1	2950.6
42.5°	11358.7	5285.2	2963.5	3032.4	3054.0	2942.0	2825.7	2812.8	2842.9	2838.6	2821.4
45°	11457.8	5082.8	2890.3	2916.1	2933.4	2748.1	2692.1	2666.3	2700.8	2713.7	2730.9
47.5°	11078.7	4914.8	2808.4	2756.8	2722.3	2601.7	2528.5	2481.1	2524.2	2597.4	2614.6
50°	10592.0	4695.1	2679.2	2580.2	2506.9	2455.2	2403.5	2356.2	2386.3	2438.0	2425.1
52.5°	9872.6	4350.5	2515.5	2412.2	2287.2	2300.2	2252.8	2226.9	2244.2	2244.2	2231.2
55°	8847.5	3575.2	2239.9	2166.6	2063.3	2097.7	2106.3	2071.9	2037.4	2067.6	2041.7
57.5°	6039.0	2524.2	1998.6	1998.6	1895.3	1942.7	1938.3	1856.5	1774.7	1783.3	1766.0
60°	3493.3	2011.6	1843.6	1826.4	1718.7	1757.4	1766.0	1710.0	1585.1	1593.7	1576.5
62.5°	1985.7	1718.7	1611.0	1585.1	1563.6	1598.1	1598.1	1524.8	1417.1	1425.8	1408.5
65°	1688.5	1593.7	1438.7	1434.4	1425.8	1434.4	1399.9	1322.4	1227.6	1188.9	1193.2
67.5°	1533.4	1473.1	1322.4	1283.6	1257.8	1253.5	1188.9	1115.6	1072.5	1038.1	1033.8
70°	1343.9	1296.5	1184.5	1132.9	1107.0	1046.7	982.1	934.7	874.4	857.2	874.4
72.5°	1063.9	1059.6	1016.6	960.6	904.6	857.2	801.2	736.6	680.6	667.7	637.5
75°	736.6	745.2	753.8	745.2	697.8	637.5	572.9	521.2	452.3	413.5	404.9
77.5°	482.4	495.4	508.3	491.0	460.9	404.9	361.8	297.2	245.5	215.4	211.1
80°	353.2	370.4	379.1	366.1	331.7	288.6	241.2	189.5	150.8	124.9	124.9
82.5°	271.4	288.6	297.2	275.7	241.2	206.8	172.3	133.5	103.4	81.8	77.5
85°	94.8	90.5	107.7	112.0	133.5	124.9	103.4	77.5	60.3	43.1	38.8
87.5°	25.8	25.8	30.2	30.2	25.8	21.5	21.5	21.5	17.2	12.9	12.9
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)