

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: P533728

Luminaire Tested: **GALN-SA9A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28949 lumens
Efficiency: N/A
Efficacy: 105.7 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): 274
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

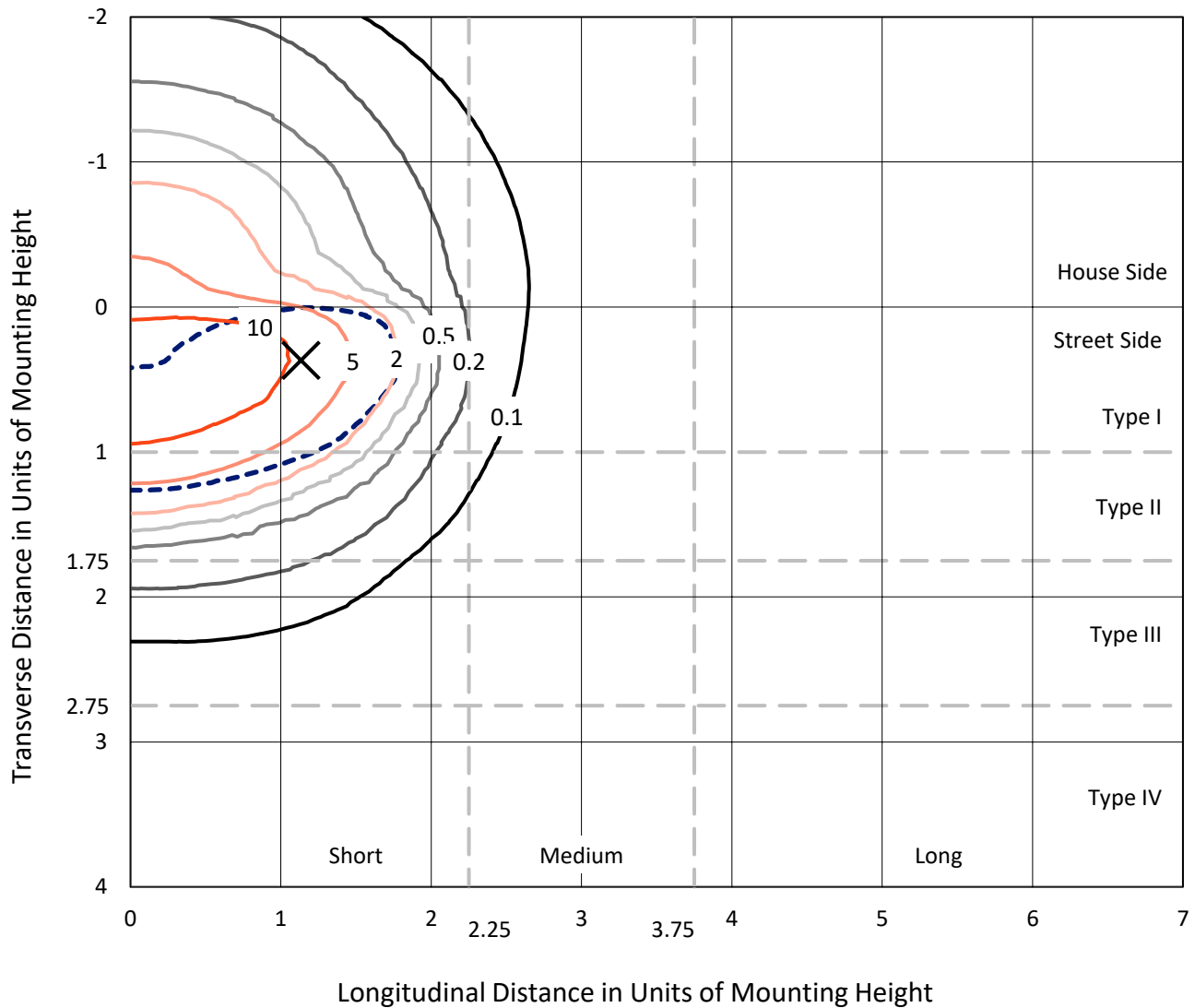


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

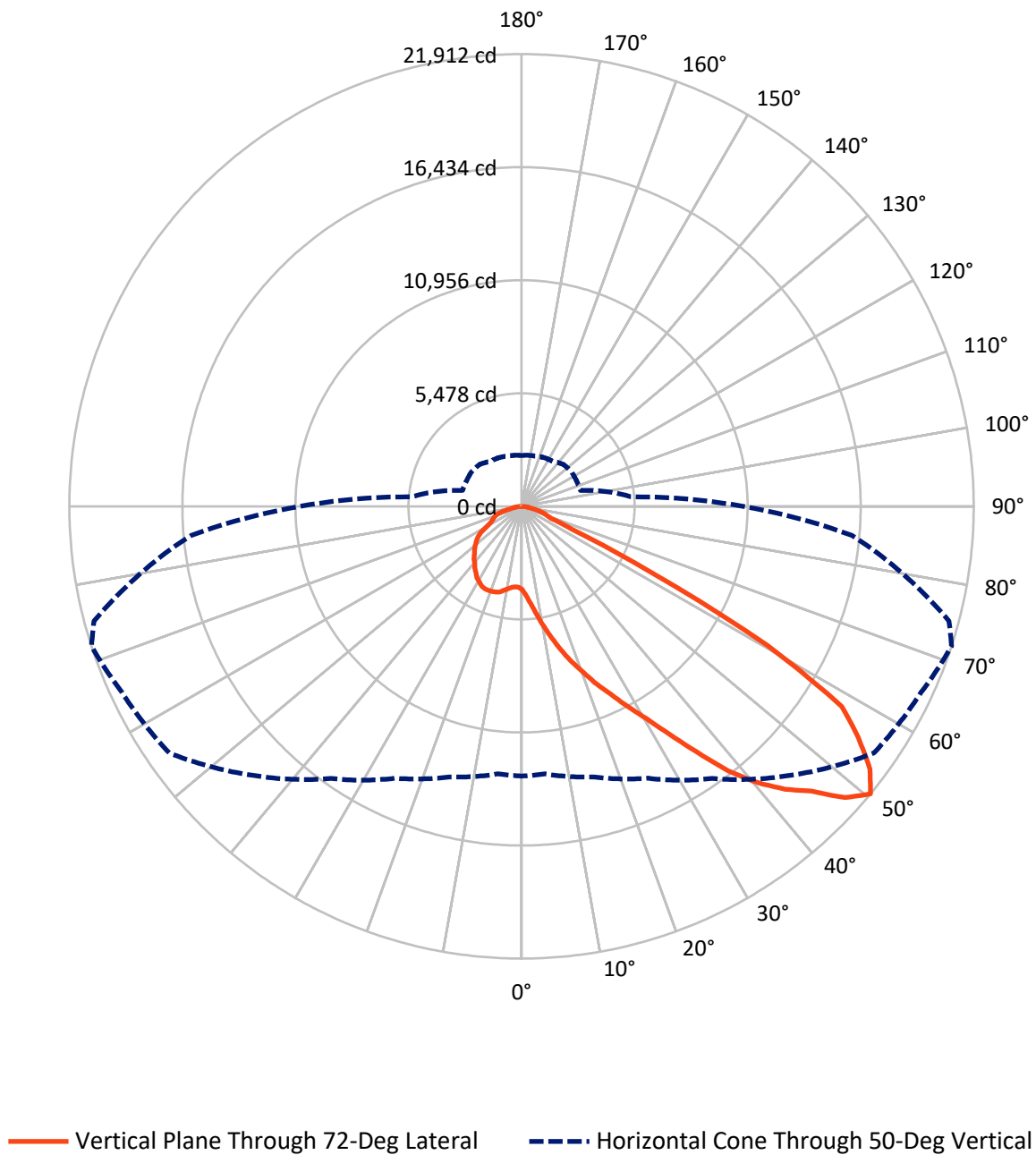


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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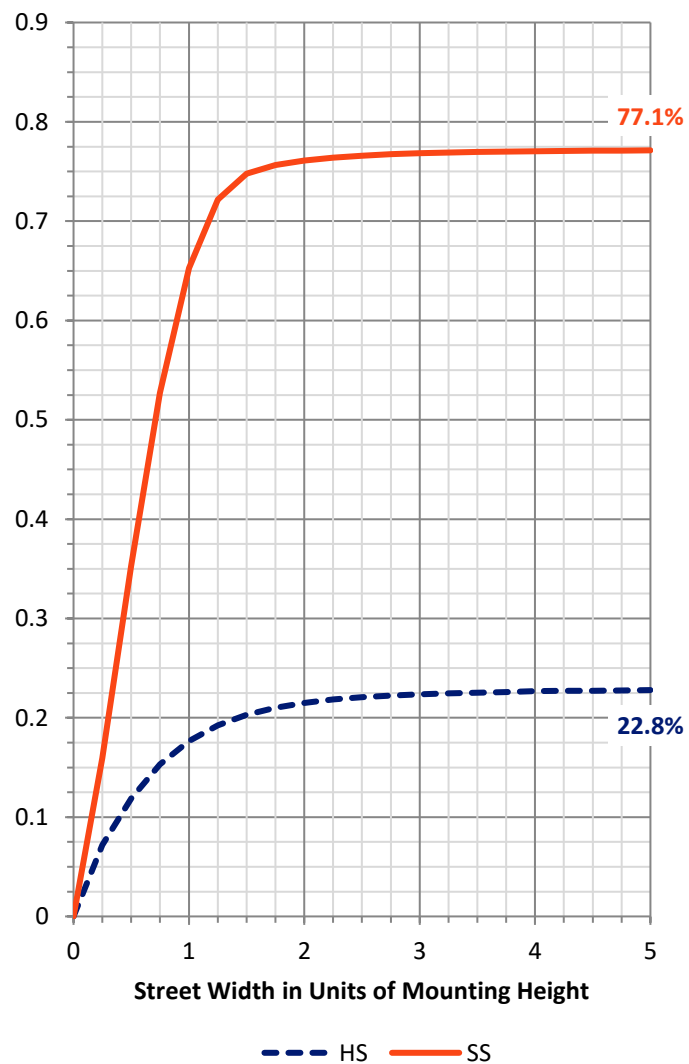
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6632.4	0.0	6632.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22316.6	0.0	22316.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	28949.0	0.0	28949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.0	1.6
10°-20°	1772.1	6.1
20°-30°	3435.9	11.9
30°-40°	5692.1	19.7
40°-50°	7964.5	27.5
50°-60°	6719.1	23.2
60°-70°	2048.0	7.1
70°-80°	718.5	2.5
80°-90°	124.9	0.4
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°	28949.0	100.0
0°-180°	28949.0	100.0

Coefficient of Utilization



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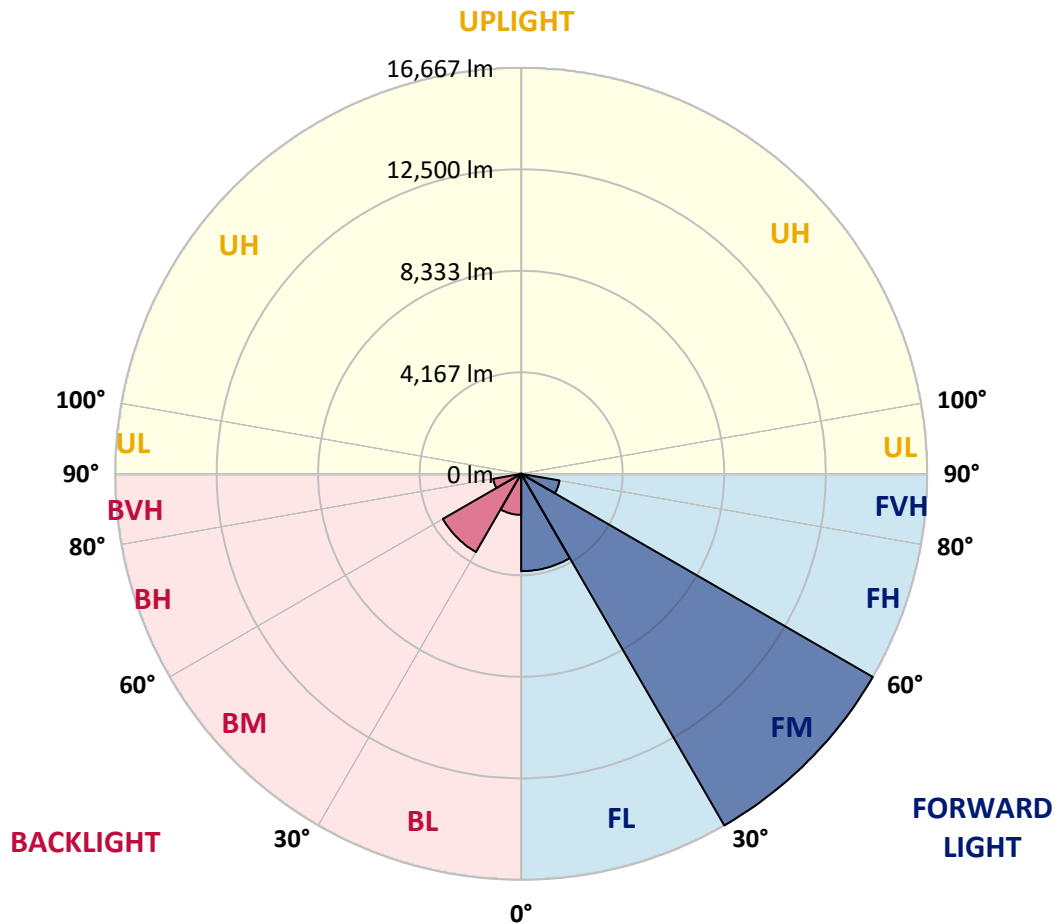
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3996.0	13.8			
FM	(30°-60°)	16666.7	57.6			
FH	(60°-80°)	1597.9	5.5			G1/1800
FVH	(80°-90°)	55.9	0.2			G1/100
BL	(0°-30°)	1686.0	5.8	B3/2500		
BM	(30°-60°)	3708.9	12.8	B3/5000		
BH	(60°-80°)	1168.5	4.0	B3/2500		G3/2500
BVH	(80°-90°)	69.0	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°	55°	65°	72°	75°	85°
0°	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9
2.5°	5183.4	5151.2	5054.4	5022.2	4907.6	4699.8	4628.2	4416.8	4327.3	4244.9	4148.2
5°	6555.4	6404.9	6394.2	6211.5	5946.4	5792.4	5333.9	5025.8	4742.8	4599.5	4334.4
7.5°	7429.4	7433.0	7433.0	7282.6	7071.2	6680.8	6268.8	5713.6	5287.3	5075.9	4624.6
10°	8260.5	8188.9	8149.4	8135.1	7991.8	7612.1	7171.5	6483.7	5899.8	5652.7	4843.1
12.5°	8848.0	8787.1	8876.6	8830.1	8726.2	8479.0	8063.5	7279.0	6548.2	6215.1	5194.2
15°	9127.4	9170.4	9242.0	9371.0	9324.4	9231.3	8772.7	8095.7	7246.7	6870.6	5505.8
17.5°	9557.2	9439.0	9525.0	9686.2	9815.2	9772.2	9510.7	8686.8	7938.1	7476.0	5924.9
20°	9858.1	9790.1	9833.1	10019.3	10116.1	10359.7	10223.5	9460.5	8600.8	8113.6	6419.3
22.5°	10717.9	10617.6	10477.9	10506.5	10542.3	10714.3	10746.5	10309.5	9371.0	8855.1	6888.5
25°	11778.2	11685.1	11520.3	11351.9	11248.0	11215.8	11326.8	10975.8	10108.9	9575.2	7393.6
27.5°	12946.0	12788.4	12684.5	12337.0	12057.6	12014.6	11960.9	11771.0	10983.0	10406.2	7963.2
30°	14081.5	13956.2	13816.5	13261.2	12971.1	12924.5	12659.4	12713.1	11932.2	11291.0	8608.0
32.5°	14941.3	14952.0	14633.2	14214.1	13941.8	13694.7	13597.9	13752.0	13150.2	12634.3	9328.0
35°	15636.2	15668.4	15364.0	14984.2	14690.5	14862.4	14819.5	14891.1	14604.5	13974.1	10166.2
37.5°	16313.2	16152.0	15826.1	15643.4	15489.3	15772.3	16137.7	16198.6	16252.3	15510.8	11140.6
40°	16424.3	16438.6	16248.7	16377.7	16184.3	16610.5	17459.5	17380.7	17599.2	16950.9	12197.3
42.5°	16266.7	16298.9	16374.1	16556.8	17022.5	17534.8	18795.7	18473.3	18738.4	18161.6	13225.4
45°	16008.7	15876.2	15969.3	16664.3	17470.3	18609.4	20017.2	19766.4	19680.5	19196.9	14450.5
47.5°	14776.5	14912.6	15202.8	16058.9	17269.7	18795.7	20884.1	20826.8	21084.7	20744.4	15564.6
50°	13067.8	13014.0	13572.9	14536.5	16098.3	18430.3	20837.5	21356.9	21912.2	21439.3	16062.5
52.5°	9786.5	10073.1	10553.1	11749.5	13977.6	16438.6	19820.2	20687.1	21138.4	21038.1	15661.3
55°	6186.4	6272.4	6562.5	7984.7	9990.7	13193.2	16990.3	18999.9	19805.8	20182.0	15292.3
57.5°	3005.4	2844.2	3198.9	4341.6	5770.9	8873.0	13103.6	16549.7	18301.3	18981.9	14489.9
60°	1569.0	1629.9	1769.6	2178.0	2984.0	4606.7	8167.4	11029.5	13705.4	14751.4	10983.0
62.5°	1300.3	1321.8	1415.0	1619.1	1984.5	2650.8	4169.7	5376.8	6988.8	7930.9	6247.3
65°	1103.3	1114.1	1214.4	1350.5	1583.3	1866.3	2145.7	2246.0	2718.9	2790.5	2220.9
67.5°	920.6	931.4	1038.8	1167.8	1318.2	1393.5	1465.1	1457.9	1511.7	1490.2	1486.6
70°	709.3	720.0	831.1	967.2	1042.4	999.4	1221.5	1271.7	1293.2	1311.1	1339.7
72.5°	512.3	533.7	619.7	716.4	677.0	777.3	1006.6	1081.8	1110.5	1121.2	1157.0
75°	372.5	379.7	401.2	372.5	429.9	540.9	709.3	802.4	838.2	849.0	902.7
77.5°	164.8	168.4	171.9	214.9	275.8	336.7	422.7	497.9	548.1	562.4	576.7
80°	86.0	89.6	111.0	146.9	197.0	247.2	308.1	351.1	383.3	386.9	401.2
82.5°	53.7	57.3	78.8	103.9	139.7	182.7	225.7	261.5	286.6	290.2	293.7
85°	25.1	32.2	46.6	64.5	93.1	118.2	121.8	103.9	111.0	114.6	107.5
87.5°	7.2	10.7	14.3	10.7	14.3	14.3	17.9	21.5	21.5	21.5	25.1
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°	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9	4029.9
2.5°	4094.4	4062.2	3936.8	3890.2	3768.4	3789.9	3725.5	3721.9	3707.6	3704.0	3700.4
5°	4194.7	4094.4	3944.0	3829.3	3761.3	3754.1	3707.6	3707.6	3721.9	3732.6	3707.6
7.5°	4359.5	4244.9	3990.5	3883.1	3822.2	3811.4	3779.2	3754.1	3786.4	3775.6	3747.0
10°	4549.4	4348.8	4080.1	3987.0	3886.7	3861.6	3861.6	3872.3	3818.6	3836.5	3807.9
12.5°	4760.7	4492.0	4194.7	4087.3	3969.1	3954.7	3947.6	3868.7	3897.4	3883.1	3811.4
15°	5029.4	4656.8	4341.6	4158.9	4058.6	3994.1	3901.0	3886.7	3868.7	3832.9	3800.7
17.5°	5319.5	4835.9	4409.7	4180.4	4029.9	3983.4	3911.7	3836.5	3782.8	3789.9	3764.9
20°	5566.7	5000.7	4434.7	4201.9	4008.5	3918.9	3807.9	3761.3	3704.0	3700.4	3696.8
22.5°	5860.4	5222.8	4470.6	4144.6	3944.0	3850.8	3775.6	3693.2	3653.8	3603.7	3628.7
25°	6211.5	5308.8	4477.7	4112.3	3897.4	3732.6	3693.2	3603.7	3589.3	3517.7	3532.0
27.5°	6465.8	5355.4	4420.4	4012.0	3789.9	3664.6	3592.9	3528.4	3503.4	3449.6	3435.3
30°	6806.1	5427.0	4298.6	3886.7	3682.5	3542.8	3499.8	3485.5	3413.8	3356.5	3349.3
32.5°	7193.0	5473.6	4219.8	3757.7	3571.4	3464.0	3485.5	3417.4	3327.8	3277.7	3263.4
35°	7501.1	5491.5	4022.8	3610.8	3496.2	3428.1	3403.1	3388.7	3259.8	3213.2	3177.4
37.5°	7970.3	5452.1	3858.0	3507.0	3413.8	3388.7	3367.2	3270.5	3123.7	3055.6	3005.4
40°	8518.4	5441.3	3646.7	3360.1	3335.0	3363.7	3299.2	3148.7	2944.5	2869.3	2833.5
42.5°	9045.0	5516.6	3514.1	3281.3	3249.0	3259.8	3170.2	2944.5	2844.2	2801.3	2743.9
45°	9926.2	5674.2	3295.6	3159.5	3145.2	3138.0	3030.5	2794.1	2736.8	2683.0	2672.3
47.5°	10721.5	5570.3	3155.9	3034.1	3048.4	3009.0	2779.8	2704.5	2640.1	2586.3	2568.4
50°	10768.0	5323.1	2958.9	2937.4	2941.0	2872.9	2654.4	2604.2	2521.9	2486.0	2461.0
52.5°	10524.4	4918.3	2776.2	2783.4	2794.1	2683.0	2500.4	2464.5	2396.5	2346.3	2332.0
55°	9840.2	4287.9	2597.1	2625.7	2654.4	2443.0	2385.7	2296.2	2242.4	2170.8	2174.4
57.5°	8668.9	3453.2	2346.3	2392.9	2453.8	2220.9	2178.0	2066.9	1988.1	1930.8	1923.6
60°	5810.3	2457.4	1970.2	1988.1	2124.2	2031.1	2027.5	1916.5	1809.0	1758.8	1730.2
62.5°	3428.1	1877.1	1701.5	1683.6	1680.0	1733.8	1823.3	1783.9	1644.2	1547.5	1576.2
65°	1794.7	1622.7	1583.3	1522.4	1486.6	1472.3	1540.3	1558.2	1465.1	1361.2	1354.1
67.5°	1508.1	1508.1	1475.9	1454.4	1404.2	1343.3	1300.3	1243.0	1228.7	1200.0	1164.2
70°	1372.0	1407.8	1397.0	1346.9	1303.9	1235.9	1124.8	1031.7	942.1	909.9	931.4
72.5°	1196.4	1232.3	1232.3	1207.2	1149.9	1046.0	938.5	831.1	755.8	698.5	691.4
75°	920.6	938.5	981.5	952.9	877.6	813.2	702.1	591.1	519.4	465.7	454.9
77.5°	587.5	616.1	616.1	612.6	558.8	497.9	426.3	347.5	293.7	254.3	243.6
80°	390.5	408.4	422.7	408.4	372.5	326.0	272.2	218.5	179.1	146.9	139.7
82.5°	286.6	308.1	318.8	304.5	268.7	232.8	193.4	154.0	114.6	89.6	82.4
85°	111.0	114.6	129.0	154.0	150.5	146.9	118.2	86.0	64.5	46.6	43.0
87.5°	28.7	25.1	28.7	28.7	25.1	21.5	21.5	21.5	21.5	10.7	14.3
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)