

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: P534394

Luminaire Tested: **GALN-SA9D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534394
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-SA9D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 43697 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

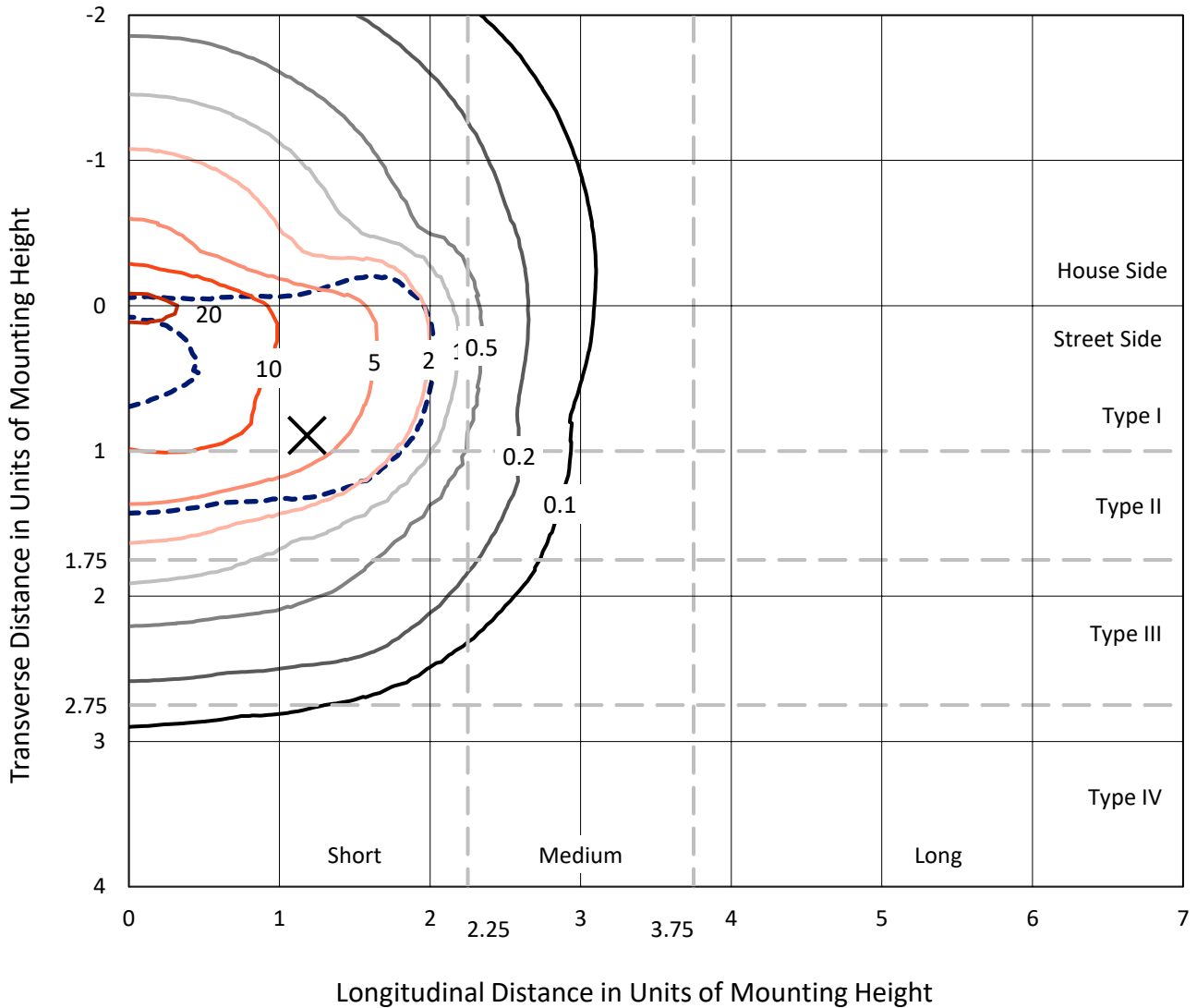
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

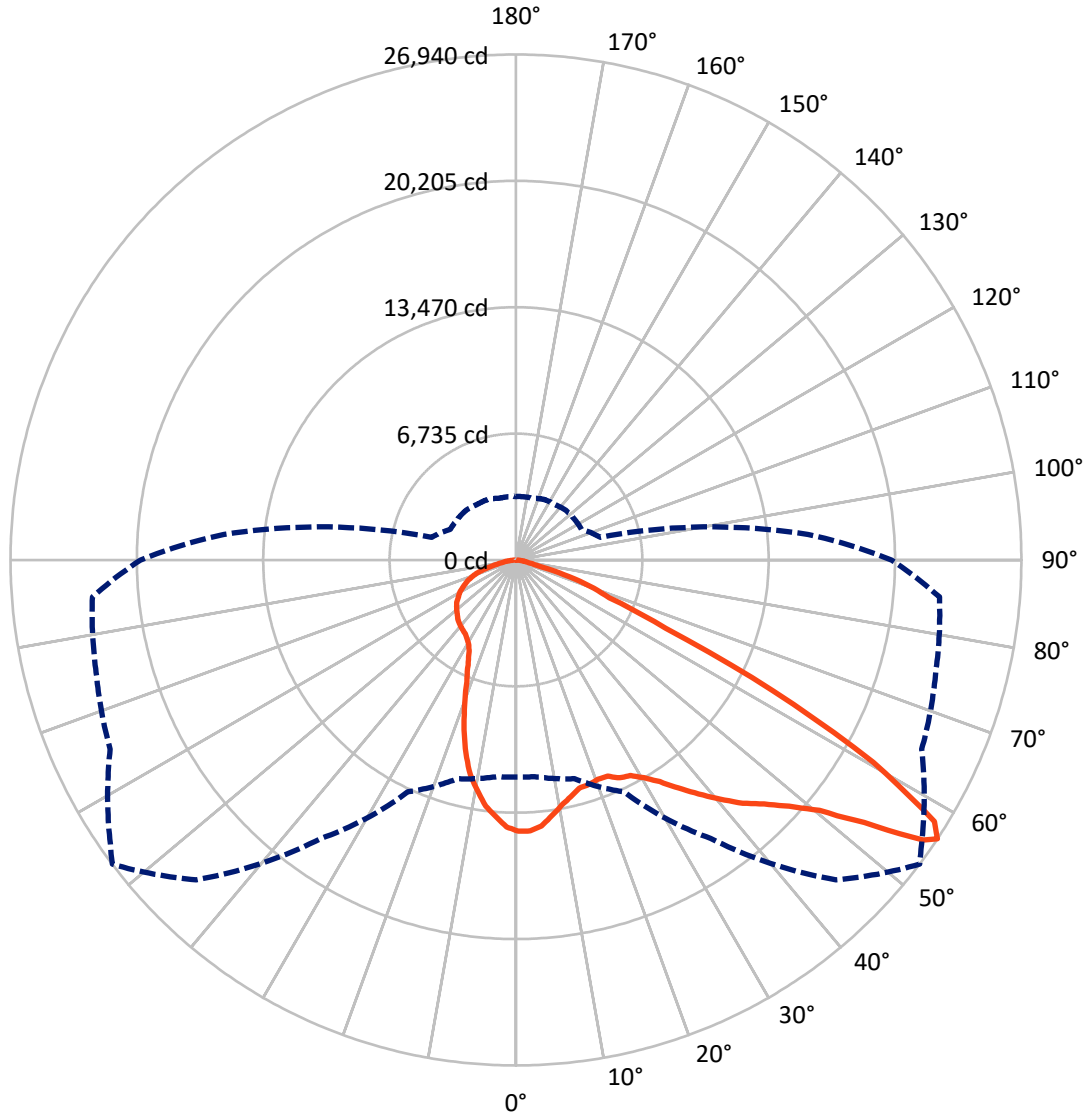
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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	12751.7	0.0	12751.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	30945.3	0.0	30945.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	43697.0	0.0	43697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.8	2.9
10°-20°	3196.5	7.3
20°-30°	4713.5	10.8
30°-40°	6734.6	15.4
40°-50°	9269.3	21.2
50°-60°	10953.8	25.1
60°-70°	5837.6	13.4
70°-80°	1481.0	3.4
80°-90°	230.9	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°	43697.0	100.0
0°-180°	43697.0	100.0

Coefficient of Utilization



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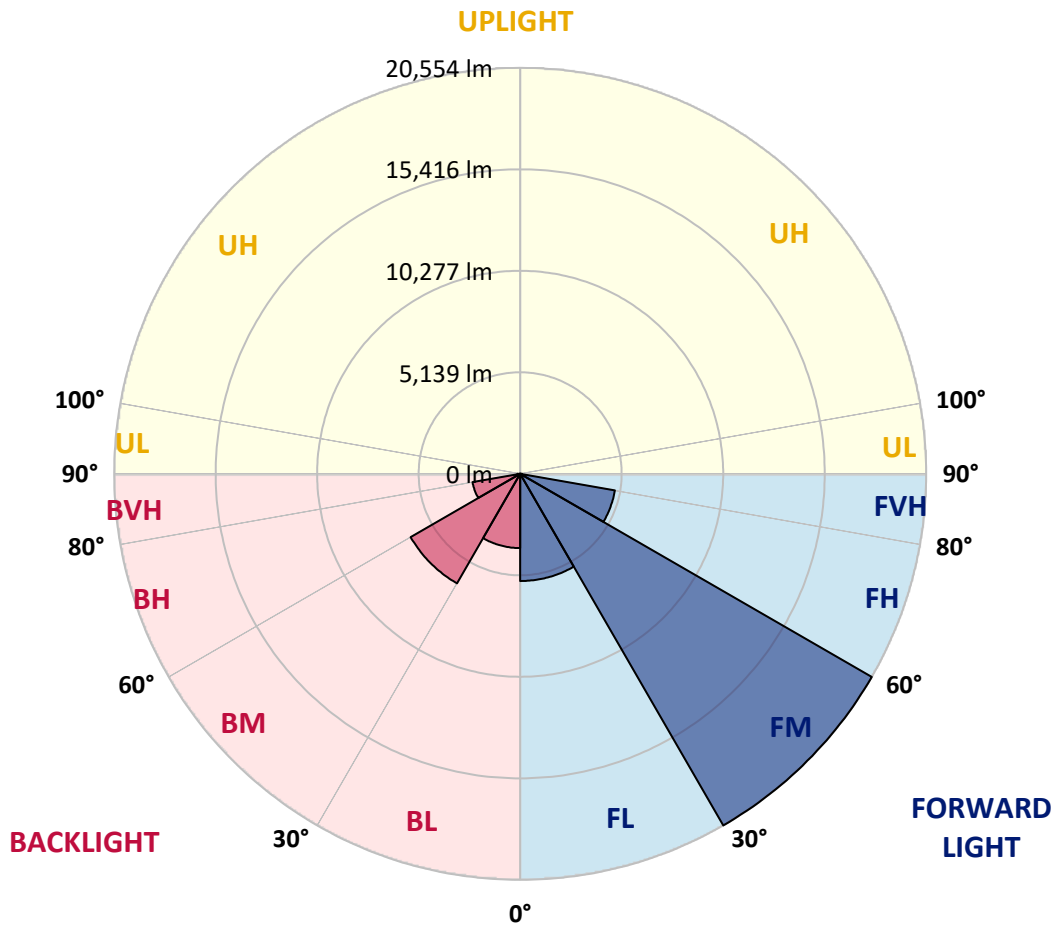
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5428.7	12.4			
FM (30°-60°)	20554.2	47.0			
FH (60°-80°)	4869.5	11.1			G2/5000
FVH (80°-90°)	92.8	0.2			G1/100
BL (0°-30°)	3761.0	8.6	B4/5000		
BM (30°-60°)	6403.5	14.7	B4/8500		
BH (60°-80°)	2449.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	138.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7
2.5°	14277.3	14154.0	14226.9	14198.8	14428.7	14495.9	14462.3	14490.3	14619.3	14557.6	14428.7
5°	13341.2	13515.0	13548.6	13632.7	13767.2	14030.7	14238.1	14294.1	14355.8	14641.7	14613.6
7.5°	12489.1	12606.9	12545.2	12791.8	13083.3	13509.4	13761.6	13806.4	14372.6	14529.6	14647.3
10°	11951.0	11833.3	12113.6	12180.8	12511.6	12999.2	13301.9	13486.9	14002.6	14624.9	14697.7
12.5°	11452.1	11412.9	11581.0	11771.6	12141.6	12646.1	12954.4	13027.3	13823.3	14479.1	14821.0
15°	11082.2	11037.3	11205.5	11345.6	11777.2	12225.7	12618.1	12825.5	13627.1	14395.0	14714.5
17.5°	10790.7	10785.1	10880.4	11132.6	11575.4	11951.0	12584.4	12595.7	13526.2	14524.0	14804.2
20°	10773.8	10768.2	10785.1	11065.3	11468.9	11928.6	12477.9	12578.8	13526.2	14434.3	14809.8
22.5°	10914.0	10824.3	10925.2	11104.6	11396.1	11967.8	12517.2	12741.4	13851.3	14877.1	15062.1
25°	11138.2	11160.6	11216.7	11278.3	11446.5	12057.5	12864.7	13049.7	14232.5	15258.3	15409.6
27.5°	11547.4	11536.2	11558.6	11592.3	11738.0	12141.6	13004.9	13481.3	15028.5	15936.6	15785.2
30°	12147.2	12108.0	12197.7	12315.4	12180.8	12410.7	13470.1	13828.9	15768.4	16620.4	16205.6
32.5°	12690.9	12836.7	13004.9	13055.3	12892.7	12937.6	14086.7	14451.1	16385.0	17461.3	16721.3
35°	13369.2	13486.9	13711.2	13868.1	13840.1	13705.5	14927.6	15409.6	17276.3	18077.9	17265.1
37.5°	14030.7	14170.8	14540.8	15006.0	14748.2	14686.5	15824.4	16222.4	17550.9	18408.6	17663.1
40°	15095.7	15090.1	15729.1	15970.2	16200.0	16093.5	16755.0	16889.5	17696.7	18335.7	17674.3
42.5°	16345.8	16267.3	16917.5	17293.1	17590.2	17601.4	17724.7	17679.9	17764.0	17965.8	17556.6
45°	17534.1	17702.3	18358.1	19030.8	19327.9	19361.5	18543.1	18459.0	17881.7	17859.3	17332.3
47.5°	18986.0	19025.2	19563.3	20449.0	21138.5	20903.1	19602.6	19417.6	18397.4	18571.2	17707.9
50°	19070.0	19361.5	19843.6	20886.2	23005.1	22943.5	20975.9	20628.4	19227.0	19580.2	18756.1
52.5°	17309.9	17242.6	17814.4	19518.5	22865.0	24972.7	23251.8	22422.2	21009.6	20740.5	20454.6
55°	13189.8	13346.8	13851.3	15572.2	19854.8	25000.7	26351.6	25673.4	22915.5	22455.8	22125.1
56°	11569.8	11592.3	12068.7	13638.3	18117.1	24109.4	26940.2	26390.9	23862.8	23162.1	22657.6
57.5°	9591.1	9462.2	9708.8	10566.4	15291.9	22226.0	26295.6	26833.7	24972.7	23924.4	23223.8
60°	7550.7	7522.6	7421.7	7578.7	9664.0	16743.8	21889.6	23100.4	24860.6	23206.9	22242.8
62.5°	6166.1	6026.0	6227.8	6452.0	6715.4	10387.1	15381.6	16093.5	19737.1	18526.3	16710.1
65°	4781.5	4714.3	4966.5	5695.2	5852.2	6597.7	8761.5	9310.8	11653.9	11446.5	10078.8
67.5°	3290.5	3301.7	3520.3	4630.2	5426.2	5358.9	5364.5	5650.4	6082.0	4518.1	3935.1
70°	2085.3	2079.7	2197.4	2982.1	4366.7	4411.6	4187.3	4103.3	3890.2	2354.3	2494.5
72.5°	1339.7	1300.5	1362.1	1648.0	2259.0	2612.2	2690.7	2741.1	2253.4	1849.8	2006.8
75°	756.7	717.5	695.1	768.0	891.3	1031.4	1132.3	1166.0	1306.1	1401.4	1485.5
77.5°	229.8	207.4	252.2	336.3	442.8	594.2	723.1	745.5	880.1	992.2	1076.3
80°	100.9	112.1	157.0	224.2	313.9	420.4	510.1	543.7	633.4	717.5	739.9
82.5°	61.7	67.3	106.5	151.3	218.6	297.1	364.4	375.6	465.3	532.5	549.3
85°	22.4	28.0	56.1	89.7	140.1	190.6	190.6	207.4	190.6	190.6	207.4
87.5°	0.0	0.0	5.6	11.2	11.2	16.8	22.4	22.4	28.0	33.6	39.2
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°	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7	14456.7
2.5°	14495.9	14467.9	14423.1	14260.5	14243.7	14193.2	13913.0	13868.1	13913.0	13778.4	13789.6
5°	14467.9	14552.0	14215.7	14053.1	13750.4	13531.8	13279.5	13150.6	12920.8	12775.0	12937.6
7.5°	14591.2	14557.6	14137.2	13784.0	13330.0	12775.0	12332.2	12079.9	11676.3	11564.2	11648.3
10°	14546.4	14367.0	13873.7	13408.5	12550.8	12063.1	11345.6	10650.5	10269.4	10073.2	10045.1
12.5°	14484.7	14434.3	13610.3	12808.7	11906.2	10880.4	9871.4	9215.5	8593.3	8324.2	8363.5
15°	14557.6	14131.6	13117.0	12102.4	10902.8	9557.4	8470.0	7623.5	7191.9	7018.1	7018.1
17.5°	14524.0	13985.8	12881.5	11312.0	9792.9	8200.9	7006.9	6496.8	6317.4	6317.4	6367.9
20°	14540.8	14081.1	12405.1	10521.6	8481.2	6906.0	6037.2	5852.2	5930.7	5958.7	5986.7
22.5°	14636.1	13767.2	11939.8	9652.7	7264.8	5908.2	5482.2	5487.8	5628.0	5779.3	5751.3
25°	14753.8	13643.9	11373.6	8789.5	6334.3	5420.6	5286.0	5269.2	5375.7	5454.2	5465.4
27.5°	14652.9	13430.9	10796.3	7713.2	5571.9	5095.4	5067.4	5078.6	5112.3	5269.2	5218.8
30°	14983.6	13492.5	10073.2	6810.7	5151.5	4988.9	4955.3	4938.5	4988.9	5033.8	4994.5
32.5°	15392.8	13273.9	9535.0	5941.9	4944.1	4910.5	4843.2	4820.8	4848.8	4803.9	4826.4
35°	15572.2	13234.7	8834.3	5319.7	4781.5	4753.5	4714.3	4708.7	4714.3	4675.0	4641.4
37.5°	15673.1	13419.7	8032.7	5033.8	4680.6	4708.7	4619.0	4607.8	4506.9	4529.3	4546.1
40°	15846.9	13133.8	7382.5	4759.1	4619.0	4562.9	4484.4	4467.6	4400.3	4361.1	4400.3
42.5°	15594.6	13049.7	6743.5	4641.4	4529.3	4467.6	4411.6	4316.3	4293.8	4260.2	4237.8
45°	15392.8	12567.6	6171.7	4495.6	4422.8	4389.1	4282.6	4181.7	4097.7	4131.3	4080.8
47.5°	15544.2	12399.5	5605.5	4372.3	4277.0	4237.8	4131.3	4052.8	3968.7	3929.5	3918.3
50°	16149.6	12713.4	5129.1	4282.6	4153.7	4131.3	3991.1	3901.5	3823.0	3795.0	3806.2
52.5°	17595.8	13571.0	4803.9	4097.7	4036.0	3935.1	3856.6	3744.5	3694.1	3604.4	3660.4
55°	19428.8	14966.8	4719.9	3923.9	3890.2	3800.6	3694.1	3610.0	3514.7	3441.8	3425.0
56°	20017.4	15633.9	4652.6	3856.6	3800.6	3750.1	3610.0	3559.5	3408.2	3391.4	3380.1
57.5°	20493.9	16222.4	4663.8	3727.7	3671.6	3626.8	3542.7	3419.4	3318.5	3256.8	3284.8
60°	19417.6	15185.4	4450.8	3531.5	3520.3	3436.2	3318.5	3262.4	3139.1	3066.2	3049.4
62.5°	14434.3	10308.6	3610.0	3279.2	3273.6	3183.9	3049.4	2987.8	2965.3	2864.4	2864.4
65°	8313.0	6463.2	3122.3	3071.8	3027.0	2937.3	2802.8	2752.3	2696.3	2662.6	2634.6
67.5°	3548.3	3352.1	2836.4	2830.8	2780.3	2668.2	2533.7	2455.2	2382.4	2315.1	2348.7
70°	2572.9	2612.2	2561.7	2533.7	2472.0	2331.9	2214.2	2118.9	2006.8	1961.9	1995.6
72.5°	2040.4	2124.5	2197.4	2203.0	2130.1	1967.5	1838.6	1709.7	1586.4	1524.7	1552.7
75°	1547.1	1603.2	1676.1	1692.9	1586.4	1474.3	1350.9	1216.4	1121.1	1048.2	1059.4
77.5°	1115.5	1104.3	1171.6	1160.3	1109.9	1031.4	919.3	796.0	689.5	622.2	627.8
80°	762.4	779.2	818.4	812.8	751.1	700.7	616.6	515.7	437.2	381.2	370.0
82.5°	532.5	560.6	594.2	566.2	515.7	465.3	403.6	330.7	269.1	224.2	213.0
85°	190.6	218.6	252.2	269.1	285.9	274.7	229.8	185.0	134.5	112.1	106.5
87.5°	39.2	44.8	50.4	50.4	50.4	44.8	39.2	39.2	33.6	16.8	16.8
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)