

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: P530580

Luminaire Tested: **GALN-SA5D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32496 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

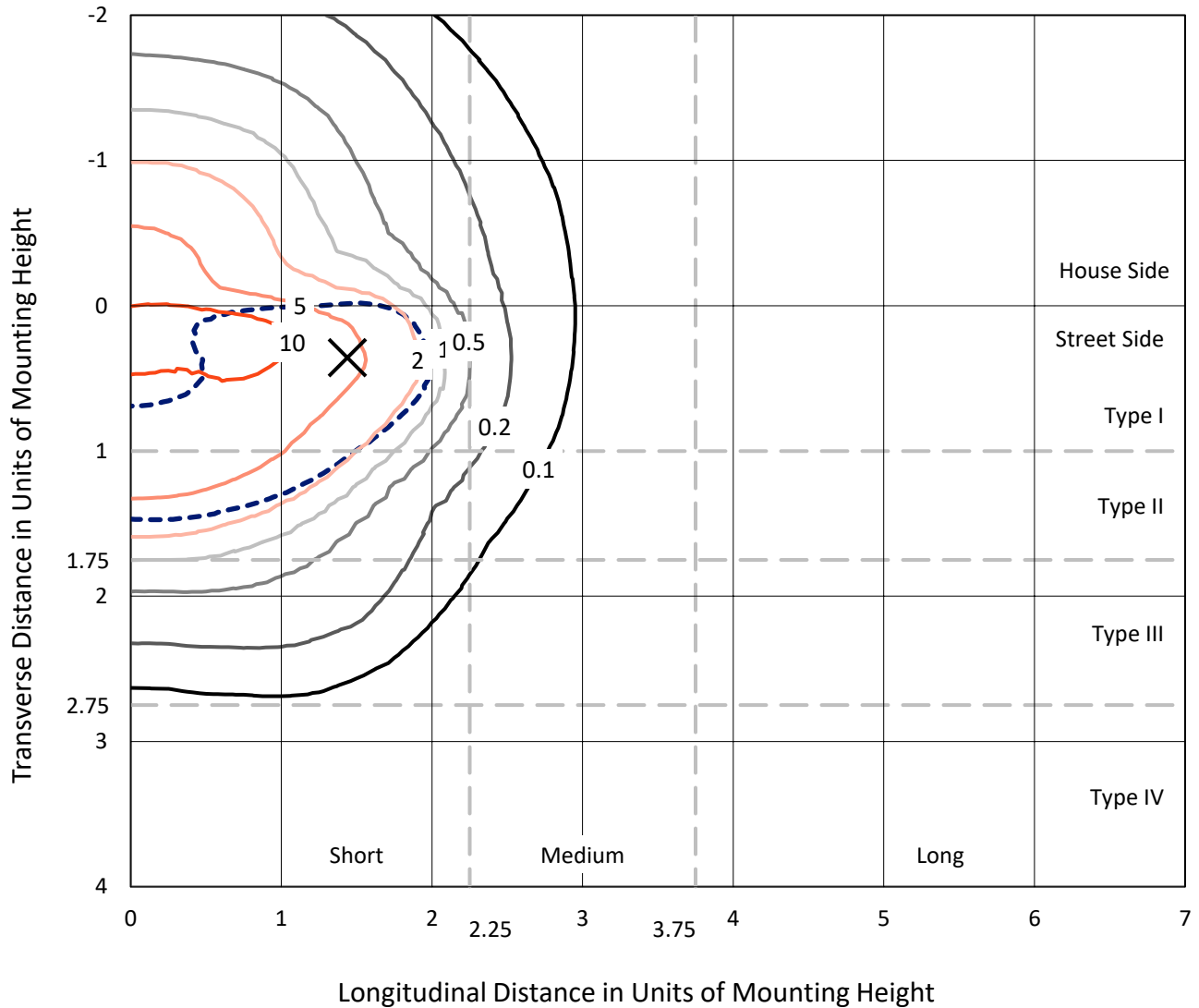
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

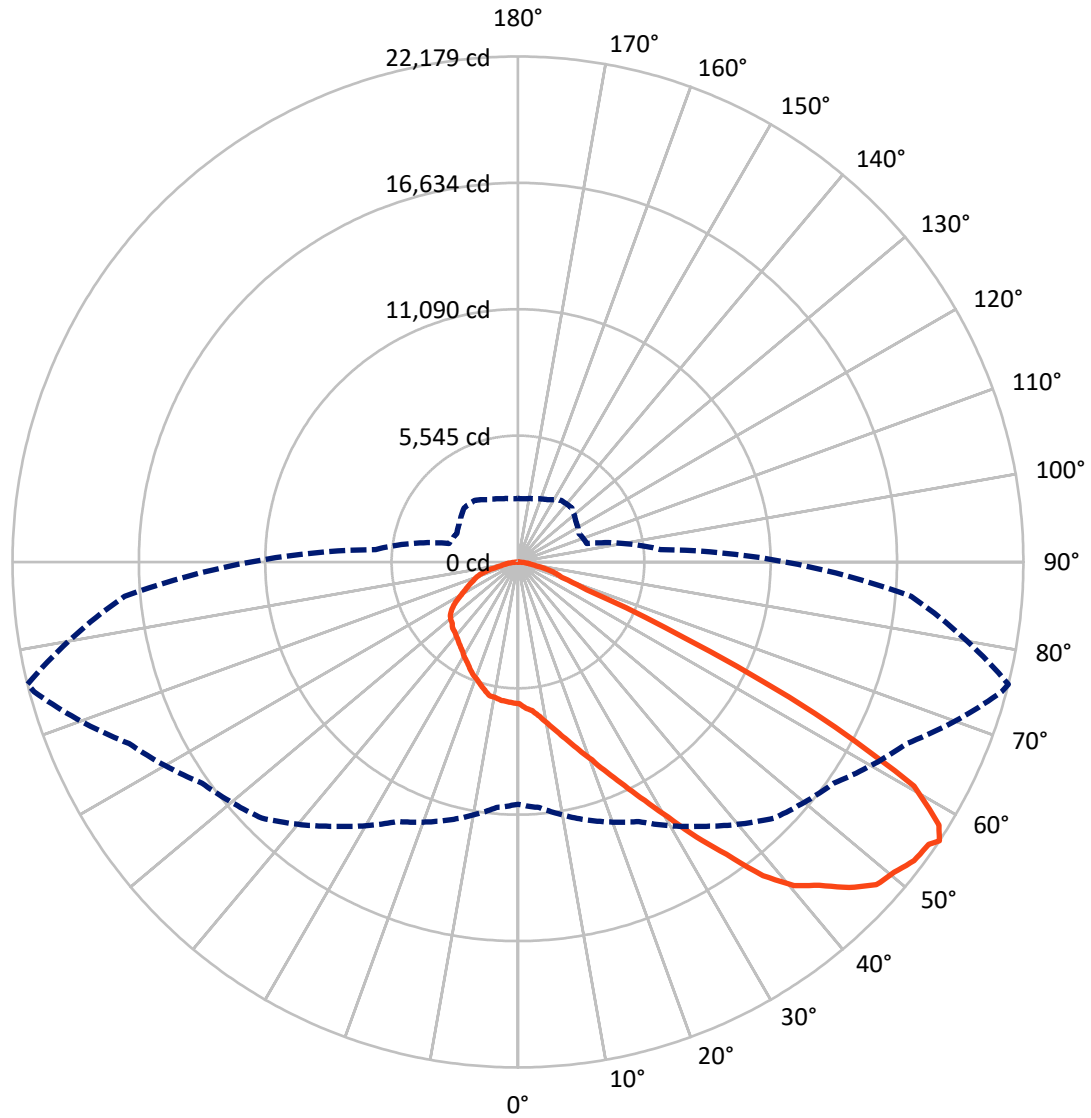
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8737.2	0.0	8737.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23758.8	0.0	23758.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	32496.0	0.0	32496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.6	1.9
10°-20°	1936.9	6.0
20°-30°	3387.5	10.4
30°-40°	5303.8	16.3
40°-50°	7715.6	23.7
50°-60°	8479.9	26.1
60°-70°	3785.1	11.6
70°-80°	1093.3	3.4
80°-90°	177.3	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°	32496.0	100.0
0°-180°	32496.0	100.0

Coefficient of Utilization



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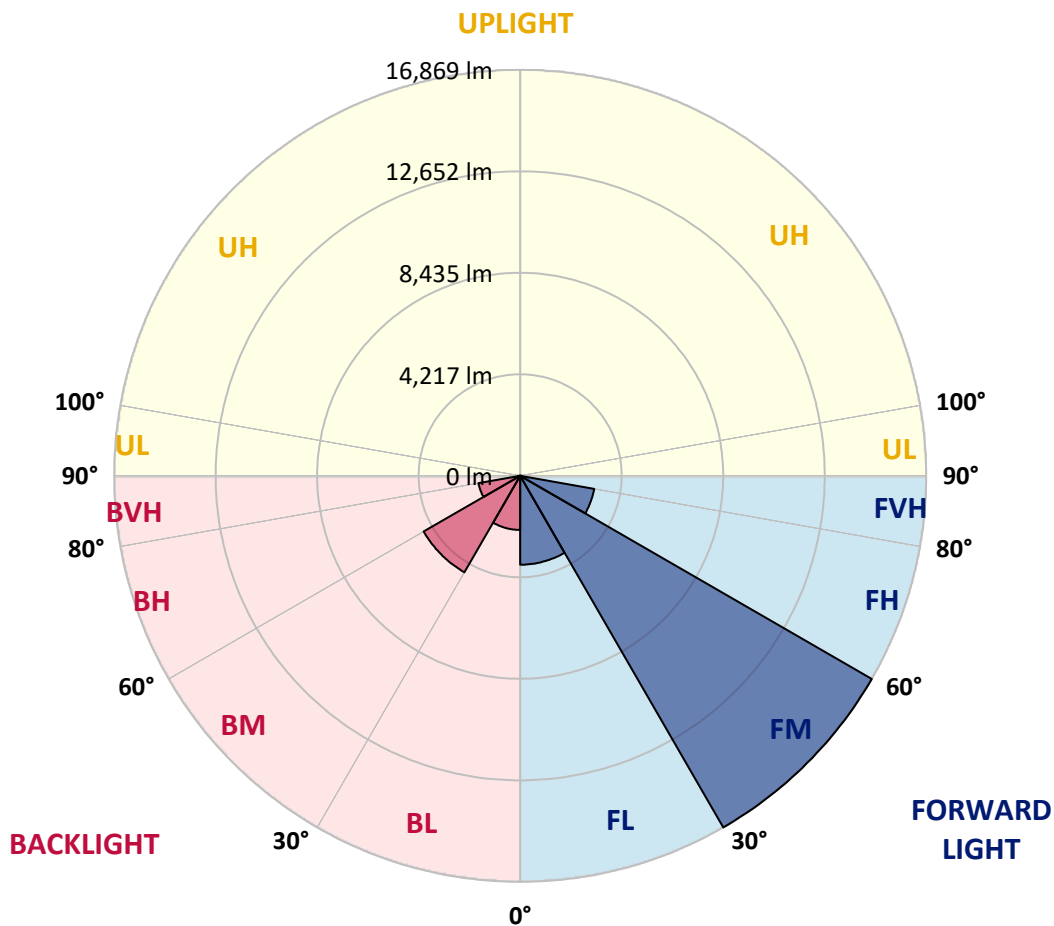
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3692.8	11.4			
FM (30°-60°)	16869.3	51.9			
FH (60°-80°)	3120.4	9.6			G2/5000
FVH (80°-90°)	76.3	0.2			G1/100
BL (0°-30°)	2248.2	6.9	B3/2500		
BM (30°-60°)	4630.0	14.2	B3/5000		
BH (60°-80°)	1757.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	101.0	0.3			G2/225
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°	75°	76°	85°
0°	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7
2.5°	6849.6	6740.0	6731.6	6702.1	6719.0	6643.2	6563.1	6457.8	6348.3	6415.7	6255.6
5°	7329.8	7182.4	7241.3	7140.2	7152.9	7051.8	6887.5	6765.3	6630.5	6550.5	6436.7
7.5°	7498.3	7510.9	7553.1	7536.2	7452.0	7452.0	7342.4	7127.6	6891.7	6845.4	6655.8
10°	7725.8	7730.0	7683.7	7696.3	7814.2	7759.5	7662.6	7569.9	7266.6	7211.8	6874.8
12.5°	7805.8	7730.0	7805.8	7873.2	8012.2	8088.1	8067.0	7999.6	7675.2	7637.3	7144.4
15°	7818.5	7772.1	7835.3	7987.0	8109.1	8429.3	8589.3	8543.0	8113.3	8117.5	7447.8
17.5°	7759.5	7822.7	7847.9	7978.5	8260.8	8559.9	9023.2	9086.4	8732.6	8677.8	7831.1
20°	7839.5	7793.2	7826.9	7944.8	8319.7	8787.3	9393.9	9811.0	9313.9	9276.0	8227.1
22.5°	8147.0	8083.8	8075.4	8151.2	8420.8	8905.3	9785.7	10535.5	10021.6	10042.7	8719.9
25°	8387.1	8420.8	8391.4	8387.1	8555.6	9082.2	10303.8	11399.1	10982.1	10859.9	9301.3
27.5°	8800.0	8880.0	8821.0	8901.1	8863.2	9347.6	10674.5	12355.3	12018.3	11854.1	9827.8
30°	9372.9	9415.0	9360.2	9360.2	9246.5	9718.3	11011.5	13353.7	13214.7	12991.4	10447.1
32.5°	10126.9	10190.1	10080.6	10017.4	10000.5	10270.1	11618.2	14339.4	14575.3	14385.8	11268.5
35°	11125.3	11087.4	10956.8	10897.8	10670.3	11116.9	12519.6	15472.6	16091.9	15754.9	12262.7
37.5°	12005.7	11946.7	11938.3	11609.7	11664.5	12031.0	13286.3	16332.0	17562.0	17465.1	13311.6
40°	12827.1	12881.9	12970.4	12785.0	12700.8	13105.2	14179.4	16989.1	18703.6	18665.7	14120.4
42.5°	13707.6	13657.0	13812.9	13657.0	13530.6	14103.5	15148.3	17444.1	19706.2	19394.5	14967.1
45°	14984.0	14823.9	14878.7	14891.3	14798.6	15009.2	15548.4	17772.7	20409.7	20376.0	15586.4
47.5°	16049.7	16053.9	15961.3	15889.7	15607.4	15818.0	15995.0	17979.1	21218.5	21163.7	15826.5
50°	16445.7	16390.9	16660.6	16816.4	16833.3	16403.6	16344.6	18092.8	21644.0	21403.9	16066.6
52.5°	15021.9	15072.4	15497.9	16424.6	16959.6	17006.0	16753.2	18328.7	21816.7	21766.1	16260.4
55°	12090.0	12334.3	13033.6	14103.5	15371.5	16765.9	17195.5	18573.0	21909.4	21867.2	17119.7
56°	10628.2	10817.8	11727.7	12566.0	14158.3	15893.9	16917.5	18834.2	21981.0	22179.0	17321.9
57.5°	8555.6	8774.7	9427.6	10379.7	12258.5	14234.1	16150.8	18514.1	21702.9	21778.8	17469.4
60°	5349.9	5371.0	6154.5	6782.2	8104.9	10034.2	12325.9	16108.7	20085.3	19975.8	15691.7
62.5°	3509.0	3513.2	4225.2	4739.1	5341.5	5783.8	7254.0	10683.0	14819.7	14625.9	11171.6
65°	2464.3	2519.1	3070.9	3757.6	4001.9	3770.2	3723.9	5632.2	8277.6	7999.6	6002.9
67.5°	1803.0	1807.2	2295.8	3033.0	3386.9	2868.7	2329.5	2750.8	3277.3	3268.9	2780.3
70°	1192.1	1242.7	1617.6	2266.3	2670.7	2304.3	1904.1	1967.3	2085.2	2085.2	2068.4
72.5°	695.1	741.4	989.9	1436.5	1499.7	1440.7	1508.1	1685.0	1760.8	1756.6	1735.6
75°	396.0	417.0	471.8	598.2	745.6	880.4	1107.9	1276.4	1352.2	1398.6	1343.8
77.5°	231.7	244.3	278.0	341.2	387.6	476.0	602.4	720.3	821.4	808.8	817.2
80°	122.2	122.2	155.9	202.2	269.6	337.0	400.2	467.6	522.4	535.0	547.6
82.5°	71.6	75.8	101.1	147.4	193.8	240.1	307.5	353.9	404.4	408.6	417.0
85°	37.9	42.1	63.2	96.9	130.6	147.4	151.7	143.2	155.9	147.4	168.5
87.5°	12.6	12.6	21.1	16.9	16.9	21.1	25.3	25.3	33.7	33.7	33.7
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°	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7	6217.7
2.5°	6251.4	6251.4	6179.8	6045.0	6023.9	5969.2	5918.6	5914.4	5876.5	5842.8	5825.9
5°	6369.3	6238.8	6133.4	6011.3	5868.1	5800.7	5724.8	5640.6	5606.9	5640.6	5636.4
7.5°	6504.1	6394.6	6078.7	5851.2	5686.9	5619.5	5535.3	5446.8	5455.2	5455.2	5396.2
10°	6634.7	6487.3	5981.8	5691.1	5451.0	5400.5	5354.1	5387.8	5429.9	5438.4	5400.5
12.5°	6853.8	6521.0	5935.5	5531.1	5379.4	5269.9	5299.4	5392.0	5480.5	5455.2	5484.7
15°	7018.1	6550.5	5724.8	5366.8	5177.2	5227.7	5333.1	5396.2	5543.7	5526.8	5556.3
17.5°	7178.1	6567.3	5518.4	5147.7	5067.7	5206.7	5286.7	5467.9	5514.2	5615.3	5653.2
20°	7506.7	6601.0	5307.8	5012.9	4987.6	5147.7	5286.7	5371.0	5472.1	5560.5	5560.5
22.5°	7675.2	6584.2	5168.8	4836.0	4916.0	5017.1	5143.5	5286.7	5286.7	5371.0	5375.2
25°	7885.9	6516.8	4949.7	4751.7	4810.7	4907.6	5050.8	5000.3	5055.0	5055.0	5122.4
27.5°	8126.0	6373.6	4760.2	4600.1	4718.0	4823.3	4844.4	4810.7	4747.5	4739.1	4713.8
30°	8319.7	6196.6	4621.1	4549.5	4646.4	4705.4	4638.0	4566.4	4456.9	4448.4	4389.5
32.5°	8585.1	5977.6	4448.4	4423.2	4532.7	4536.9	4515.8	4406.3	4246.2	4178.8	4111.4
35°	9031.7	5851.2	4317.8	4355.8	4389.5	4376.8	4338.9	4221.0	4060.9	4031.4	4006.1
37.5°	9360.2	5758.5	4183.0	4229.4	4258.9	4275.7	4162.0	4031.4	4035.6	3976.6	3959.8
40°	9730.9	5699.6	4073.5	4094.6	4098.8	4153.6	4014.5	3951.4	3980.8	3942.9	3968.2
42.5°	10207.0	5716.4	3959.8	3942.9	4023.0	4001.9	3934.5	3850.3	3867.1	3753.4	3770.2
45°	10459.7	5830.1	3892.4	3816.6	3905.0	3900.8	3812.3	3732.3	3631.2	3412.1	3420.6
47.5°	10628.2	5859.6	3732.3	3681.8	3774.4	3829.2	3728.1	3542.7	3399.5	3243.6	3205.7
50°	10800.9	5914.4	3656.5	3551.2	3589.1	3719.7	3593.3	3416.4	3277.3	3138.3	3159.4
52.5°	10952.6	6019.7	3509.0	3353.2	3420.6	3563.8	3496.4	3281.6	3129.9	3016.2	2982.5
55°	11626.6	6255.6	3260.5	3058.3	3218.4	3399.5	3361.6	3100.4	2936.1	2877.2	2868.7
56°	11731.9	6264.0	3129.9	2957.2	3104.6	3344.7	3298.4	3020.4	2872.9	2780.3	2784.5
57.5°	11748.7	6162.9	2944.6	2864.5	2990.9	3264.7	3205.7	2957.2	2755.0	2670.7	2645.5
60°	10337.5	4810.7	2712.9	2662.3	2809.8	3020.4	2999.3	2784.5	2557.0	2460.1	2506.5
62.5°	7047.6	3525.9	2531.7	2523.3	2599.1	2805.5	2750.8	2557.0	2367.4	2304.3	2274.8
65°	4103.0	2675.0	2354.8	2321.1	2384.3	2493.8	2531.7	2329.5	2131.5	2089.4	2076.8
67.5°	2422.2	2211.6	2127.3	2072.6	2051.5	2118.9	2148.4	2030.4	1832.4	1773.5	1824.0
70°	2026.2	1967.3	1971.5	1878.8	1828.2	1781.9	1756.6	1651.3	1487.0	1411.2	1390.1
72.5°	1748.2	1722.9	1706.1	1621.8	1575.5	1470.2	1360.6	1255.3	1133.2	1070.0	1074.2
75°	1335.4	1326.9	1335.4	1293.2	1213.2	1129.0	1027.9	893.1	800.4	720.3	737.2
77.5°	796.2	821.4	834.1	817.2	783.5	707.7	644.5	556.1	467.6	404.4	396.0
80°	547.6	568.7	589.8	568.7	535.0	480.2	412.8	345.4	282.2	248.5	240.1
82.5°	417.0	438.1	450.7	429.7	387.6	328.6	282.2	235.9	185.4	151.7	143.2
85°	151.7	172.7	168.5	202.2	219.1	210.6	181.1	139.0	105.3	75.8	71.6
87.5°	42.1	37.9	42.1	42.1	42.1	37.9	33.7	33.7	33.7	21.1	16.9
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)