

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: P530527

Luminaire Tested: **GALN-SA5D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20813 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

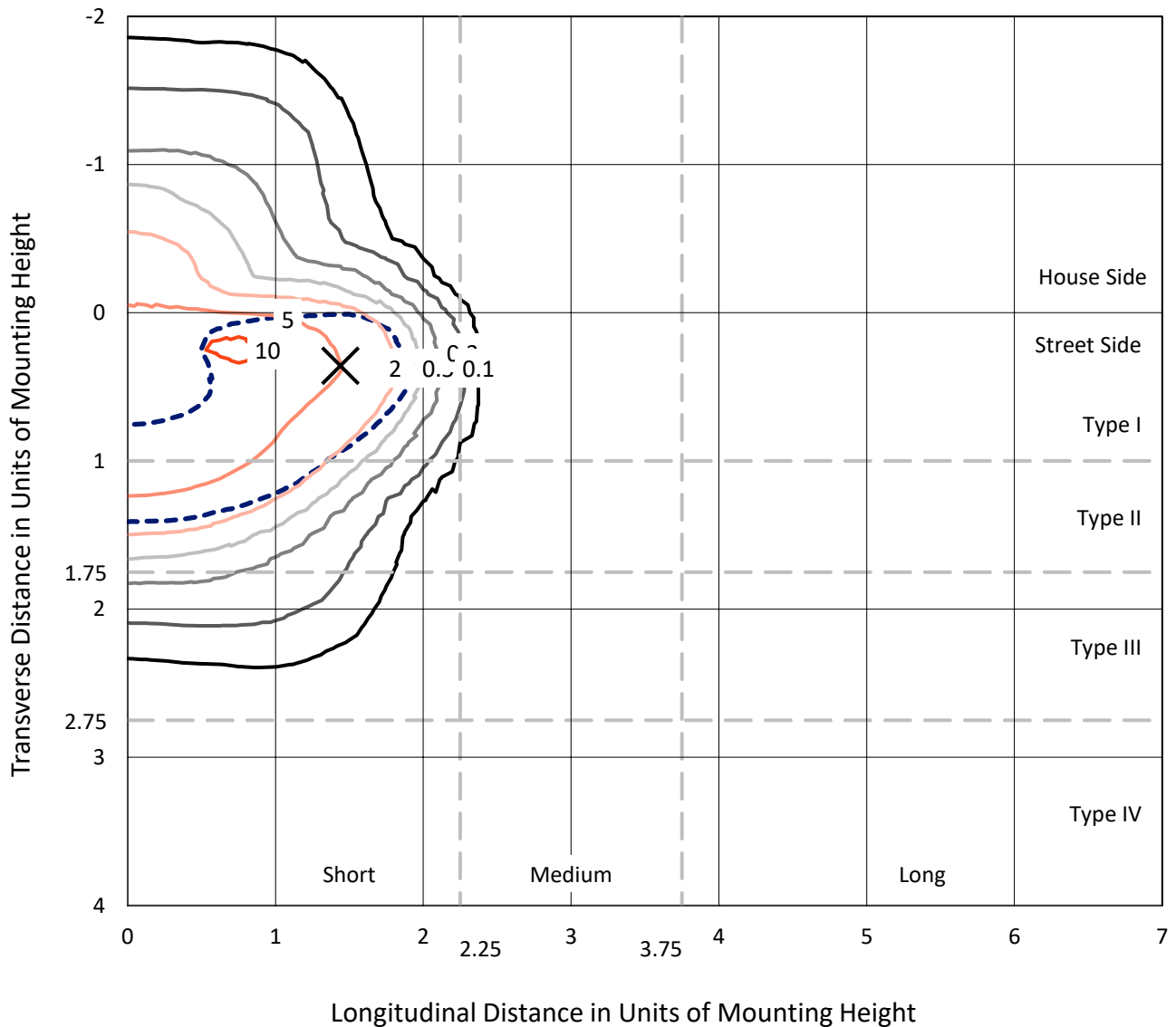
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

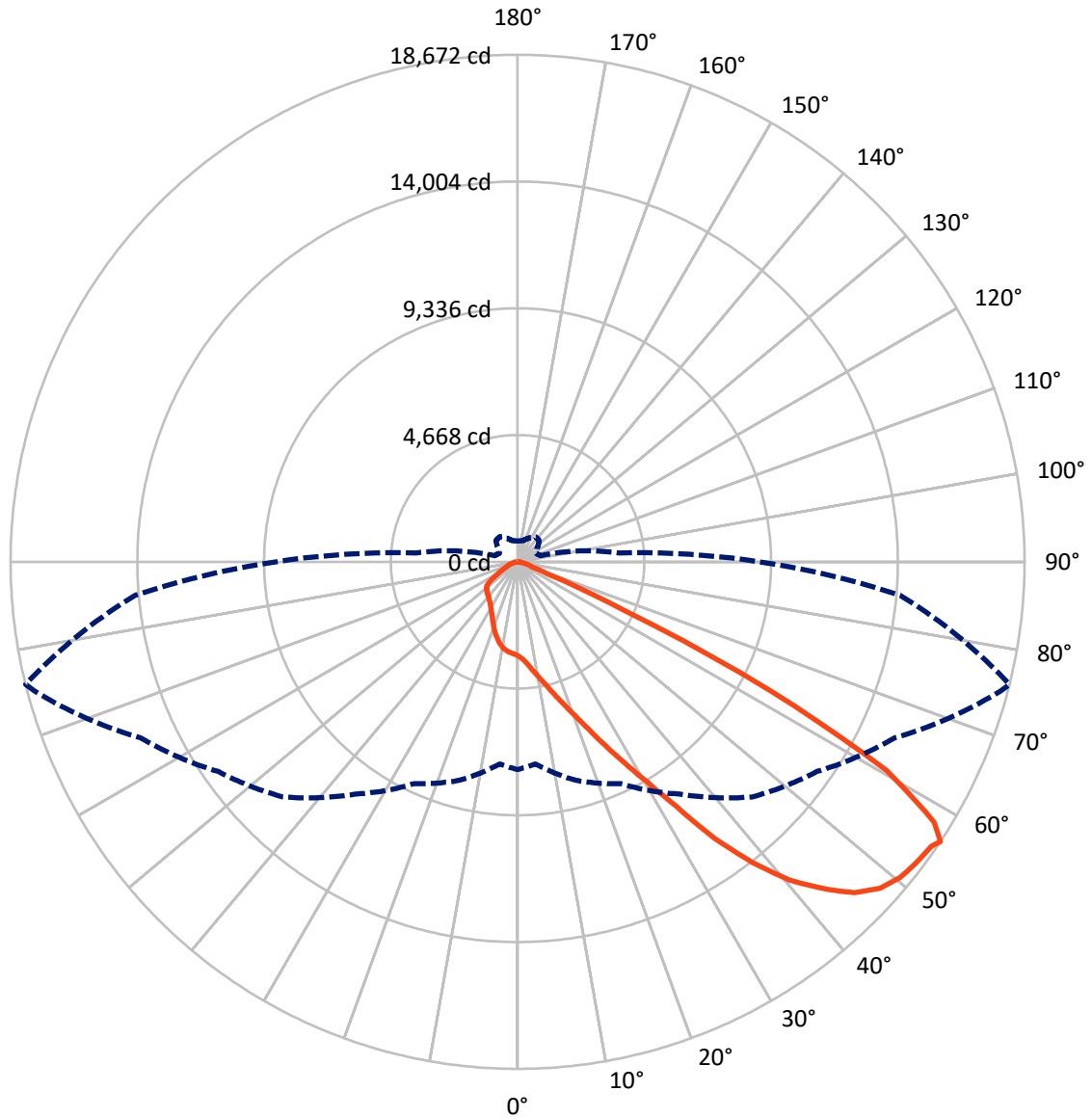
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA5D-730-U-T2-GRSBK

Luminous Intensity Polar Plot



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

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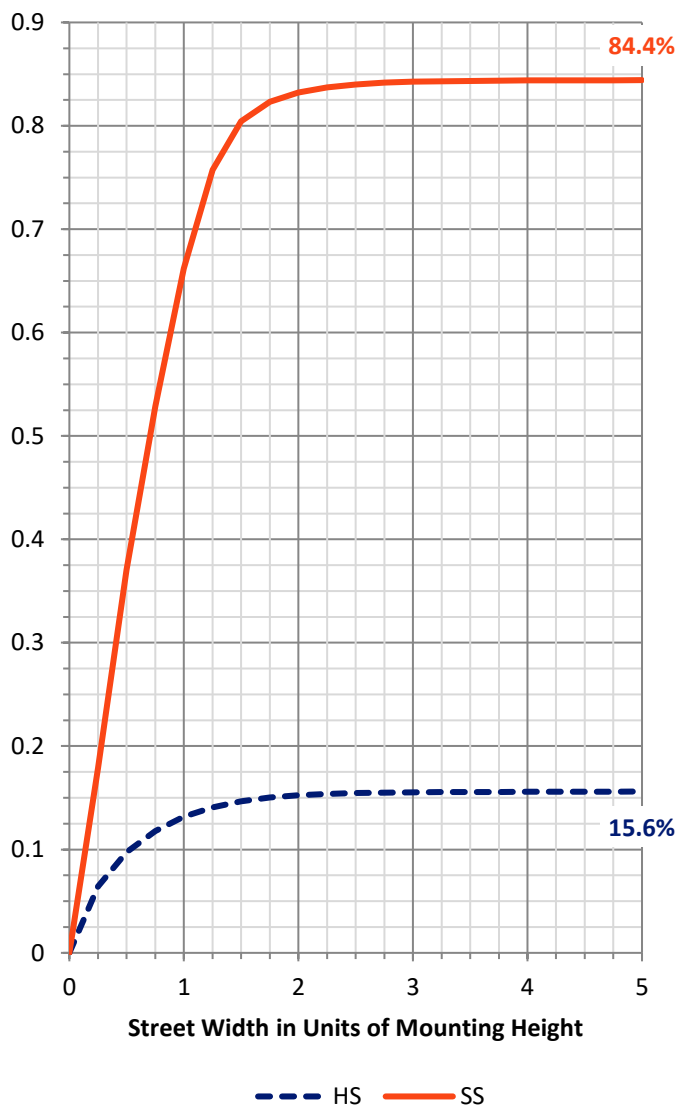
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3269.6	0.0	3269.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17543.4	0.0	17543.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	20813.0	0.0	20813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.0	1.7
10°-20°	1121.2	5.4
20°-30°	2033.0	9.8
30°-40°	3506.0	16.8
40°-50°	5695.5	27.4
50°-60°	6003.3	28.8
60°-70°	1834.3	8.8
70°-80°	235.1	1.1
80°-90°	35.7	0.2
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°	20813.0	100.0
0°-180°	20813.0	100.0

Coefficient of Utilization

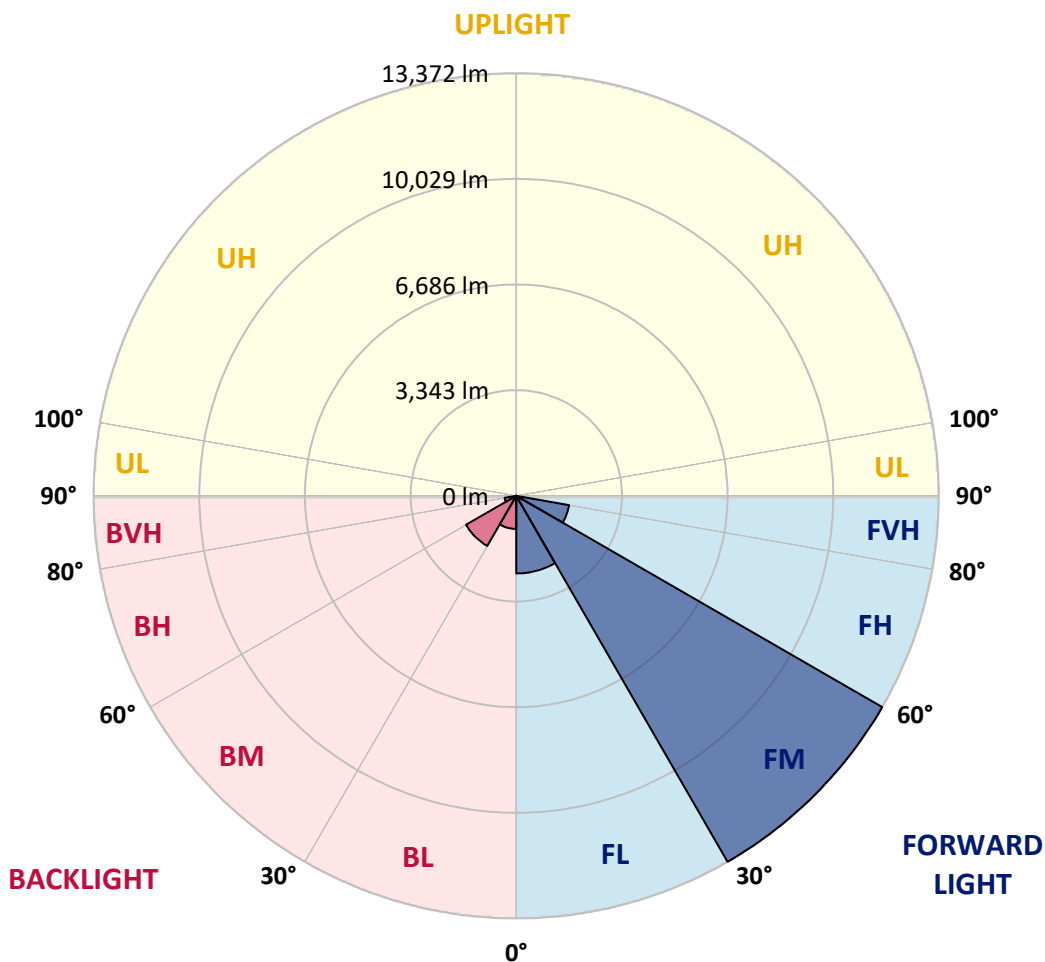


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2457.2	11.8			
FM (30°-60°)	13372.3	64.2			
FH (60°-80°)	1696.4	8.2			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1046.0	5.0	B3/2500		
BM (30°-60°)	1832.4	8.8	B2/2500		
BH (60°-80°)	373.0	1.8	B1/500		G1/500
BVH (80°-90°)	18.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4
2.5°	3990.0	3897.9	3901.7	3894.0	3882.5	3840.3	3713.7	3694.5	3610.1	3587.1	3510.4
5°	4469.5	4389.0	4435.0	4365.9	4300.7	4262.3	4055.2	3959.3	3825.0	3775.1	3667.7
7.5°	4768.8	4730.4	4715.1	4718.9	4657.5	4561.6	4469.5	4258.5	4078.2	4039.8	3813.5
10°	4914.6	4891.5	4914.6	4903.0	4929.9	4941.4	4780.3	4653.7	4389.0	4323.7	3970.8
12.5°	4949.1	4995.1	5014.3	5064.2	5129.4	5240.7	5229.1	5056.5	4703.5	4661.3	4212.5
15°	5033.5	5071.8	5052.7	5133.2	5256.0	5444.0	5543.7	5516.9	5137.1	5060.3	4492.5
17.5°	5110.2	5041.2	5106.4	5267.5	5390.3	5678.0	5919.7	6031.0	5609.0	5520.7	4749.6
20°	5213.8	5194.6	5183.1	5263.7	5482.4	5866.0	6345.6	6548.9	6138.4	6046.3	5117.9
22.5°	5528.4	5532.2	5524.6	5405.6	5562.9	5996.4	6717.7	7220.3	6771.4	6694.7	5536.1
25°	5942.7	5892.9	5854.5	5758.6	5739.4	6115.4	7093.7	8041.3	7531.0	7477.3	5988.8
27.5°	6380.1	6380.1	6265.0	6176.8	6054.0	6410.8	7439.0	8839.3	8448.0	8375.1	6383.9
30°	6855.8	6882.7	6867.3	6679.3	6602.6	6733.0	7791.9	9859.8	9499.2	9407.1	7036.1
32.5°	7557.9	7500.3	7565.6	7408.3	7181.9	7297.0	8348.2	10772.9	10865.0	10734.5	7891.7
35°	8486.3	8451.8	8409.6	8152.6	7884.0	7976.1	9134.7	11897.0	12579.9	12514.6	8754.9
37.5°	9318.8	9299.7	9265.1	9088.7	8777.9	8889.2	10028.6	13067.1	14252.6	14037.7	9974.9
40°	10193.6	10297.2	10185.9	10028.6	9744.7	9990.2	11079.8	13761.5	15660.6	15399.7	10907.2
42.5°	11379.0	11298.5	11348.4	11060.6	10907.2	11175.7	12134.8	14455.9	16754.0	16443.2	11897.0
45°	12641.3	12645.1	12510.8	12418.7	12019.7	12311.3	12783.2	14839.6	17624.9	17383.2	12645.1
47.5°	13450.8	13446.9	13592.7	13738.5	13328.0	13040.2	13224.4	15204.0	18073.7	17962.5	12917.5
50°	13324.1	13362.5	13550.5	14095.3	14310.1	13922.6	13638.7	15096.6	18277.1	18265.6	13151.5
52.5°	11590.1	11716.7	12031.2	12817.7	13899.6	14379.2	14072.3	15296.1	18376.8	18396.0	13500.6
55°	8823.9	8893.0	9491.5	10446.8	11643.8	13285.8	13899.6	15453.4	18453.5	18488.1	13922.6
56°	7653.8	7469.7	8332.9	9011.9	10442.9	12238.4	13462.3	15330.6	18407.5	18672.2	14133.6
57.5°	5777.8	5655.0	6353.2	7201.1	8578.4	10473.6	12104.1	14751.3	18096.7	18092.9	13830.6
60°	3514.2	3391.5	3928.6	4427.3	5198.5	6449.1	8179.4	11747.3	15299.9	15622.2	11198.7
62.5°	2090.9	2167.6	2697.1	3000.1	3249.5	3380.0	4231.7	6982.4	10208.9	10439.1	6947.9
65°	1392.6	1419.5	1818.5	2317.2	2428.5	1933.6	1722.6	2827.5	4427.3	4285.4	2865.9
67.5°	859.4	920.8	1220.0	1741.8	1929.8	1411.8	817.2	1055.0	1220.0	1220.0	828.7
70°	521.8	552.5	813.3	1185.5	1323.6	909.2	594.7	594.7	587.0	575.5	494.9
72.5°	249.4	268.6	414.3	610.0	621.5	479.6	460.4	502.6	491.1	487.2	410.5
75°	107.4	115.1	145.8	191.8	218.7	203.3	280.1	360.6	372.1	360.6	295.4
77.5°	34.5	38.4	53.7	69.1	72.9	88.2	118.9	149.6	172.6	161.1	145.8
80°	3.8	7.7	15.3	34.5	53.7	69.1	88.2	99.7	111.3	111.3	103.6
82.5°	3.8	3.8	15.3	30.7	49.9	65.2	84.4	95.9	111.3	115.1	107.4
85°	0.0	3.8	11.5	26.9	42.2	42.2	38.4	38.4	26.9	26.9	26.9
87.5°	0.0	0.0	3.8	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4	3464.4
2.5°	3495.0	3487.4	3383.8	3318.6	3284.0	3215.0	3172.8	3142.1	3119.1	3092.2	3096.1
5°	3541.1	3514.2	3341.6	3222.7	3080.7	3004.0	2938.8	2885.0	2850.5	2842.8	2827.5
7.5°	3671.5	3529.6	3268.7	3053.9	2873.5	2796.8	2739.3	2704.7	2720.1	2685.5	2712.4
10°	3771.3	3560.3	3180.5	2869.7	2689.4	2631.8	2601.1	2628.0	2666.4	2651.0	2631.8
12.5°	3894.0	3591.0	3038.5	2693.2	2524.4	2482.2	2535.9	2585.8	2662.5	2693.2	2654.9
15°	4032.2	3625.5	2858.2	2489.9	2382.5	2417.0	2509.1	2597.3	2674.0	2712.4	2735.4
17.5°	4201.0	3614.0	2681.7	2328.8	2248.2	2347.9	2459.2	2539.8	2654.9	2712.4	2697.1
20°	4358.3	3575.6	2486.0	2167.6	2171.5	2263.5	2355.6	2486.0	2547.4	2624.2	2597.3
22.5°	4507.9	3506.6	2282.7	2056.4	2056.4	2198.3	2244.3	2328.8	2382.5	2420.8	2417.0
25°	4718.9	3376.1	2113.9	1948.9	1995.0	2087.1	2125.4	2152.3	2129.3	2159.9	2163.8
27.5°	4868.5	3241.8	1975.8	1853.0	1937.4	2006.5	1995.0	1979.6	1925.9	1883.7	1910.6
30°	5029.6	3084.5	1856.9	1787.8	1833.8	1895.2	1849.2	1803.2	1718.7	1649.7	1653.5
32.5°	5259.8	3011.6	1753.3	1711.1	1772.5	1780.1	1730.3	1661.2	1576.8	1511.6	1507.7
35°	5689.5	2965.6	1665.0	1661.2	1672.7	1676.5	1626.7	1542.3	1507.7	1454.0	1473.2
37.5°	6119.2	2942.6	1603.7	1588.3	1584.5	1588.3	1530.8	1450.2	1515.4	1511.6	1519.3
40°	6667.8	3046.2	1515.4	1496.2	1500.1	1500.1	1427.2	1404.2	1519.3	1530.8	1534.6
42.5°	7224.1	3176.6	1457.9	1396.5	1411.8	1411.8	1373.5	1346.6	1427.2	1350.4	1338.9
45°	7707.5	3368.4	1396.5	1296.7	1335.1	1354.3	1342.8	1296.7	1246.9	1116.4	1116.4
47.5°	7864.8	3537.2	1323.6	1200.8	1231.5	1315.9	1281.4	1185.5	1097.2	989.8	982.1
50°	8141.0	3721.4	1266.0	1089.6	1154.8	1258.4	1223.8	1127.9	1028.2	951.5	955.3
52.5°	8424.9	3932.4	1158.6	959.1	1039.7	1212.3	1212.3	1104.9	951.5	897.7	890.1
55°	8850.8	3924.7	966.8	786.5	928.4	1143.3	1162.5	989.8	851.7	809.5	809.5
56°	8912.2	3748.3	870.9	736.6	878.6	1124.1	1127.9	959.1	813.3	767.3	767.3
57.5°	8451.8	3383.8	763.5	675.2	817.2	1089.6	1093.4	932.3	782.6	717.4	709.8
60°	6502.9	2290.4	636.9	602.3	740.4	982.1	1001.3	847.9	686.7	636.9	633.0
62.5°	3671.5	1269.9	560.1	544.8	636.9	836.4	893.9	740.4	583.1	556.3	564.0
65°	1676.5	698.2	471.9	441.2	514.1	644.5	721.3	610.0	479.6	448.9	448.9
67.5°	613.8	475.7	402.8	349.1	360.6	418.2	468.1	395.2	318.4	272.4	283.9
70°	437.4	399.0	353.0	303.1	280.1	272.4	268.6	222.5	157.3	122.8	130.4
72.5°	353.0	329.9	295.4	257.0	218.7	184.2	157.3	115.1	72.9	49.9	46.0
75°	253.2	241.7	214.8	184.2	153.5	130.4	107.4	72.9	38.4	19.2	19.2
77.5°	130.4	130.4	126.6	115.1	95.9	76.7	61.4	42.2	23.0	7.7	7.7
80°	99.7	107.4	111.3	99.7	88.2	69.1	49.9	30.7	15.3	3.8	3.8
82.5°	95.9	111.3	118.9	103.6	88.2	65.2	49.9	30.7	15.3	3.8	3.8
85°	23.0	23.0	34.5	38.4	49.9	53.7	42.2	26.9	11.5	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	0.0
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)