

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: P651473

Luminaire Tested: **GALN-SA6D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30887.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

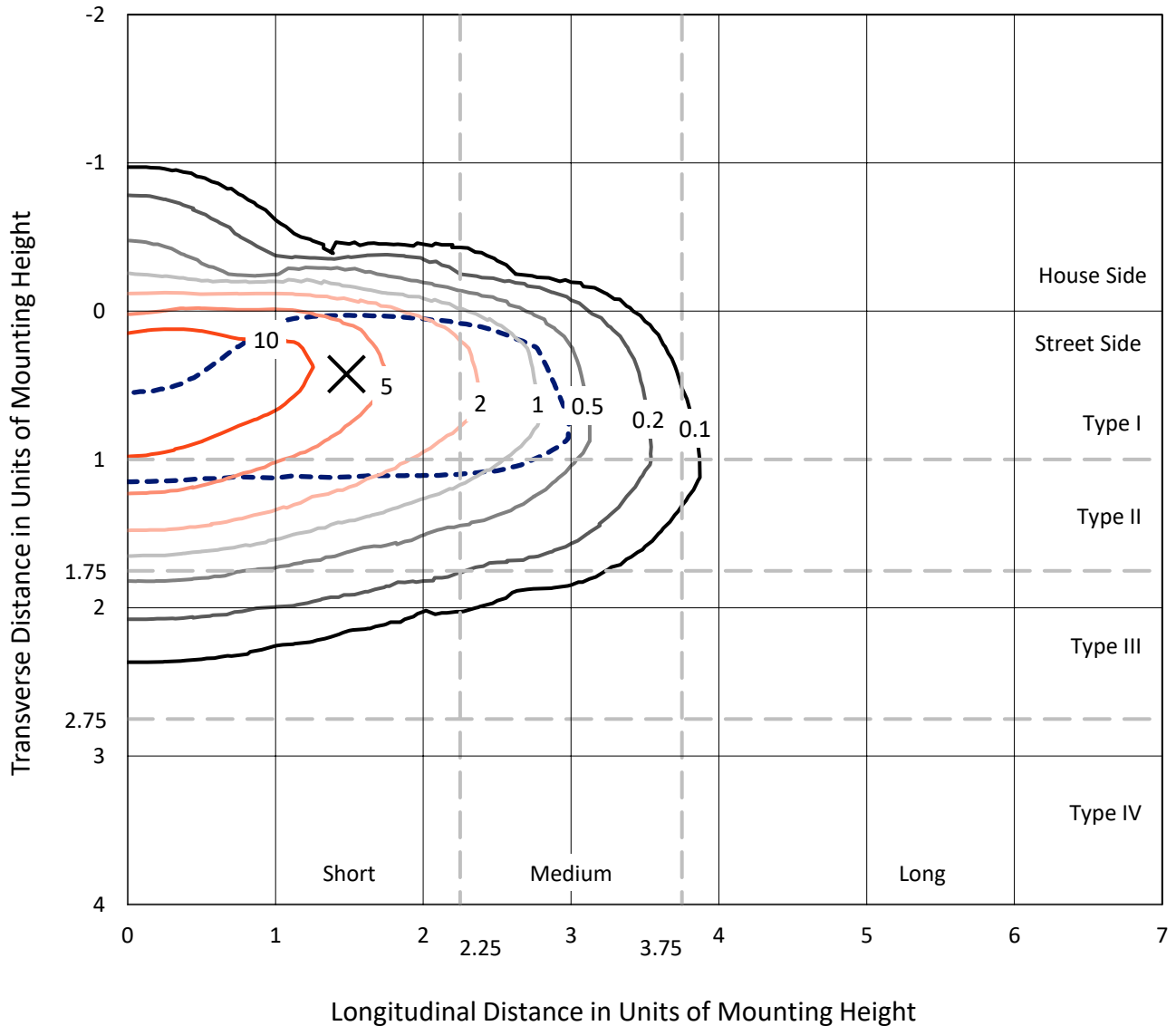
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

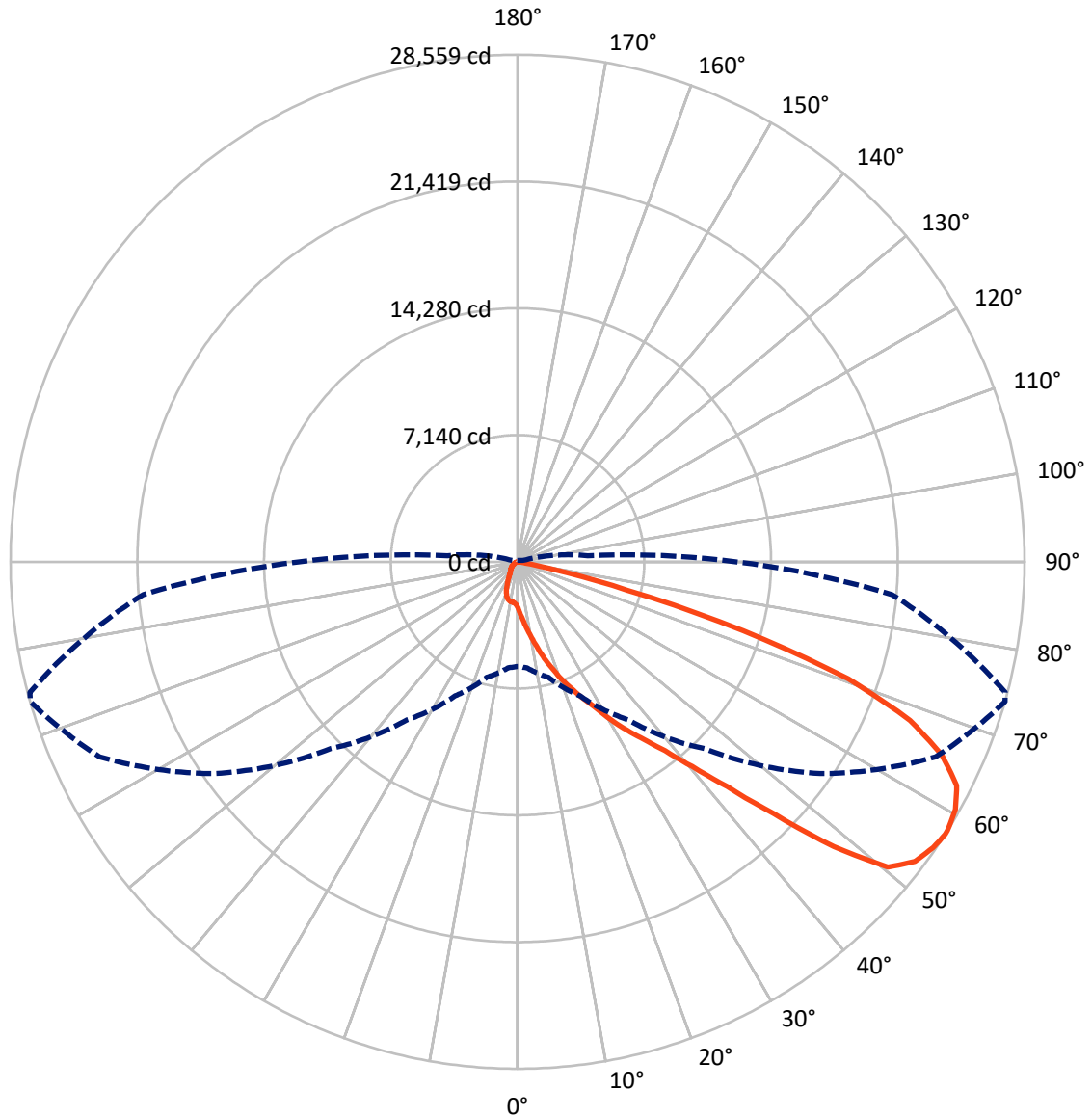
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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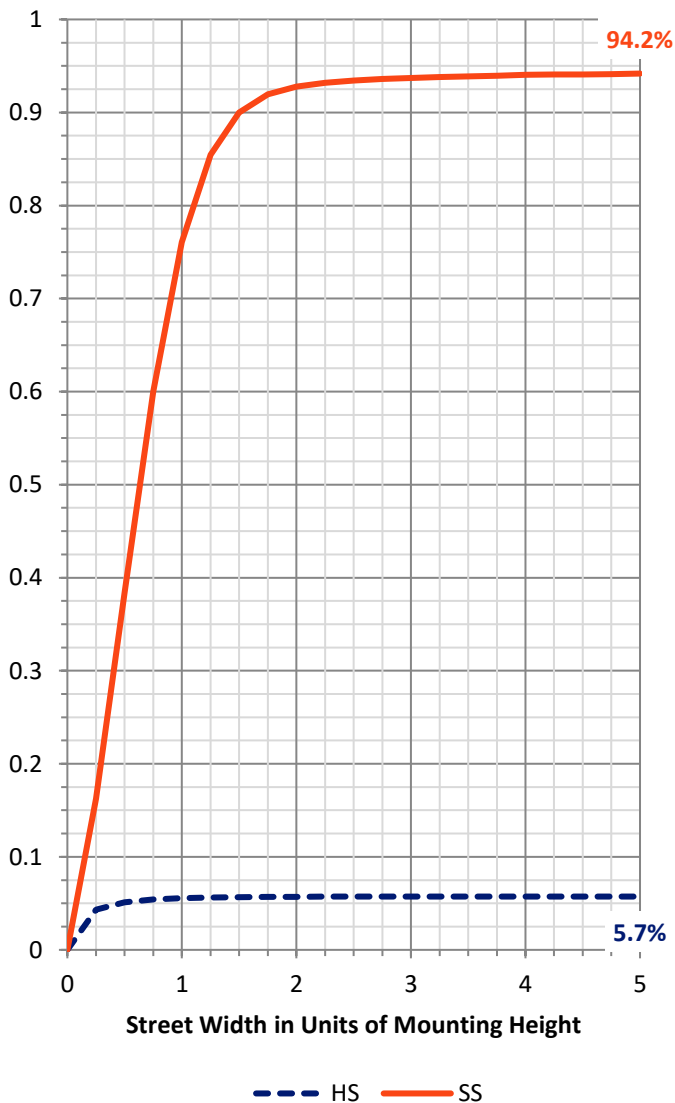
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1781.5	0.0	1781.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29105.9	0.0	29105.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	30887.4	0.0	30887.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.0
10°-20°	1230.7	4.0
20°-30°	2633.4	8.5
30°-40°	4840.1	15.7
40°-50°	7420.0	24.0
50°-60°	7849.3	25.4
60°-70°	5125.8	16.6
70°-80°	1400.6	4.5
80°-90°	75.4	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°	30887.4	100.0
0°-180°	30887.4	100.0

Coefficient of Utilization

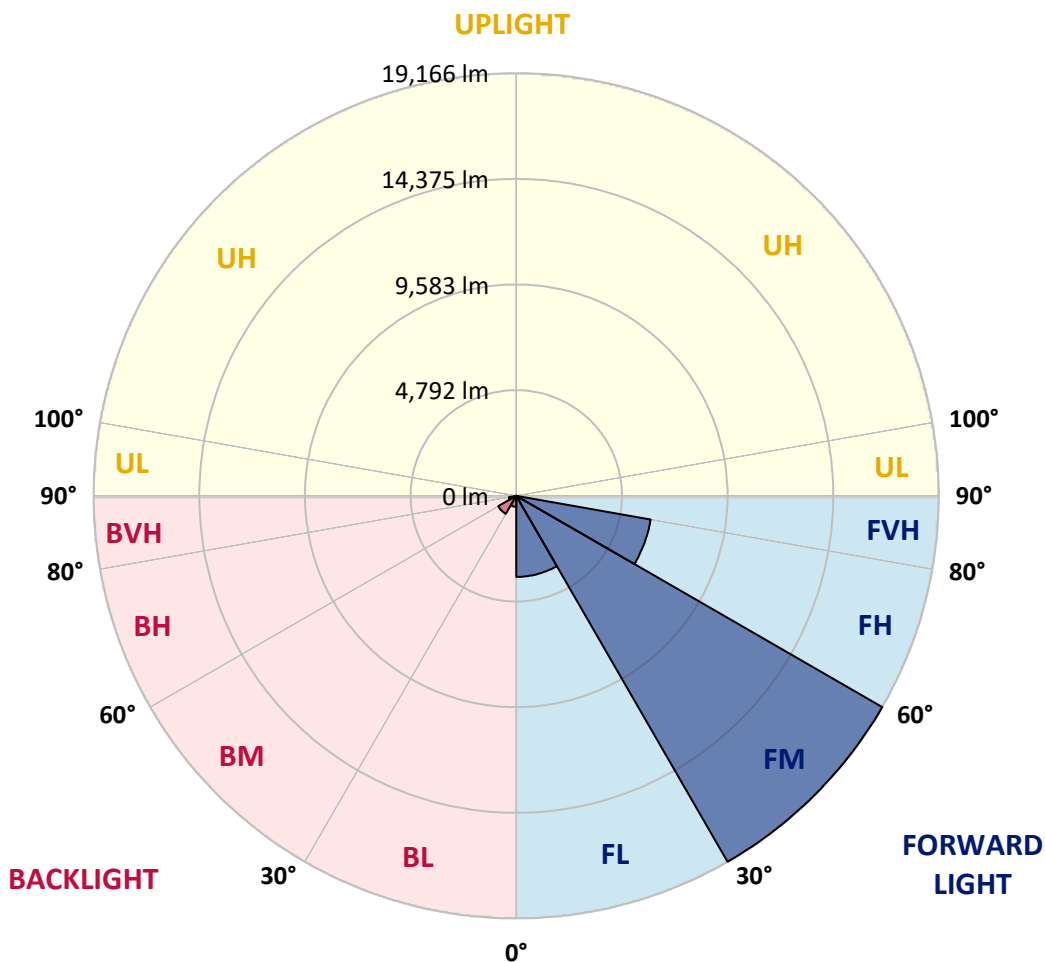


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3678.6	11.9			
FM (30°-60°)	19166.2	62.1			
FH (60°-80°)	6191.9	20.0			G3/7500
FVH (80°-90°)	69.2	0.2			G1/100
BL (0°-30°)	497.6	1.6	B1/500		
BM (30°-60°)	943.2	3.1	B1/1000		
BH (60°-80°)	334.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	3785.3	3751.1	3682.9	3659.4	3559.2	3403.5	3267.0	3083.7	2938.6	2923.7	2748.9
5°	5069.0	4992.3	4960.3	4806.7	4565.8	4339.7	3951.6	3657.3	3318.2	3292.7	2940.8
7.5°	6305.9	6199.3	6167.3	6022.3	5740.8	5384.7	4881.4	4346.1	3808.7	3759.7	3198.8
10°	7201.7	7216.5	7158.9	7063.0	6834.8	6472.3	5851.7	5120.3	4354.7	4292.8	3488.9
12.5°	7843.5	7841.4	7852.1	7849.9	7728.4	7453.3	6800.7	5958.3	4956.0	4834.5	3821.5
15°	8261.5	8267.9	8299.9	8410.8	8423.5	8253.0	7709.2	6760.2	5653.4	5502.0	4182.0
17.5°	8683.7	8728.5	8779.7	8884.2	8978.0	8909.8	8525.9	7596.2	6284.6	6171.6	4567.9
20°	9381.1	9442.9	9413.1	9477.1	9526.1	9532.5	9236.0	8368.1	7050.2	6860.4	5009.3
22.5°	10496.4	10494.3	10417.5	10302.3	10206.4	10202.1	9933.4	9161.4	7745.4	7562.0	5453.0
25°	11906.0	11912.4	11763.2	11434.7	11195.9	10903.7	10594.5	9856.6	8489.6	8263.6	5920.0
27.5°	13522.5	13482.0	13255.9	12803.8	12330.4	11831.4	11385.7	10664.9	9278.8	9091.0	6455.2
30°	14974.8	14959.8	14695.4	14143.1	13520.3	13019.2	12373.0	11677.8	10300.2	10069.9	7054.5
32.5°	16326.8	16348.1	15981.3	15409.8	14808.4	14230.5	13548.1	12646.0	11302.5	10976.2	7707.0
35°	17382.4	17403.7	17024.1	16548.6	15930.1	15450.3	14799.9	13678.2	12292.0	12016.9	8457.7
37.5°	17945.4	17973.1	17753.4	17395.2	17009.2	16768.2	16162.6	15006.7	13494.8	13328.4	9344.9
40°	18052.0	18084.0	17988.1	17892.1	17870.7	18043.5	17866.5	16572.0	15162.4	14902.3	10667.0
42.5°	17732.1	17774.8	17817.4	18030.7	18465.8	19099.1	19715.4	18696.0	17309.9	16960.1	12283.5
45°	16891.9	16887.6	17056.2	17608.4	18583.0	19935.1	21647.5	21355.3	20235.7	19819.9	14567.5
47.5°	15454.6	15433.3	15797.9	16584.9	18103.2	20088.6	23223.5	24584.0	23969.8	23586.0	17022.0
50°	13264.4	13369.0	13942.6	15040.9	16911.1	19623.7	23709.6	26701.7	27034.3	26627.0	19005.3
52.5°	10698.9	10694.7	11594.7	13085.3	15145.3	18600.1	23370.5	27085.5	28030.2	27718.9	19982.0
55°	7918.2	7973.6	8909.8	10413.3	12852.8	16731.9	22263.8	26691.0	28409.8	28190.2	20626.0
57°	5890.1	5988.2	6738.8	8329.8	10856.8	14883.0	20790.2	25985.0	28559.1	28439.7	21161.2
57.5°	5497.7	5502.0	6233.4	7679.3	10272.5	14173.0	20367.9	25690.8	28554.8	28488.7	21248.7
60°	3384.4	3491.0	3996.4	5190.7	7519.4	11061.5	17538.0	23999.7	28333.0	28429.0	21621.9
62.5°	2025.9	2070.7	2399.1	3128.4	4847.3	8073.9	14352.1	21835.1	27755.1	28047.3	21596.3
65°	1303.0	1313.6	1462.9	1893.7	3030.4	5457.2	11059.4	18975.4	26260.2	26797.6	20751.8
67.5°	1006.6	1023.6	1083.3	1243.3	1757.2	3399.3	7822.2	15923.7	23841.8	24535.0	18704.6
70°	893.6	902.1	923.4	974.6	1162.3	1919.3	4866.4	12439.1	19770.8	19967.0	14637.8
72.5°	729.3	752.8	818.9	836.0	921.2	1198.5	2708.4	8348.9	13283.7	13332.7	8189.0
75°	565.2	569.4	667.5	716.5	776.2	825.3	1209.2	4209.6	6380.6	6039.4	3156.2
77.5°	422.3	441.4	486.2	548.1	633.4	590.7	541.7	1586.6	1981.1	1944.9	917.0
80°	270.8	281.5	339.1	411.6	492.7	386.0	304.9	464.9	435.0	447.8	219.7
82.5°	136.5	138.6	217.5	334.8	313.5	194.1	191.9	189.8	162.1	160.0	102.3
85°	15.0	32.0	140.8	191.9	140.8	64.0	89.6	87.5	85.3	87.5	59.7
87.5°	2.1	2.1	23.5	27.8	19.2	21.4	25.6	27.8	34.1	32.0	25.6
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°	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2663.5	2578.3	2420.5	2269.0	2156.0	2083.5	1989.6	1955.6	1906.5	1900.1	1876.6
5°	2778.7	2616.6	2341.5	2124.0	1949.2	1816.9	1701.8	1605.8	1529.0	1511.9	1520.5
7.5°	2942.9	2702.0	2318.0	2021.7	1778.5	1552.5	1369.1	1256.0	1175.0	1145.2	1149.5
10°	3128.4	2815.0	2313.8	1912.9	1541.8	1264.6	1064.1	963.9	917.0	900.0	880.8
12.5°	3348.1	2945.0	2303.2	1744.4	1281.7	1008.7	865.8	806.1	761.4	748.5	748.5
15°	3595.4	3083.7	2251.9	1535.4	1040.7	833.9	737.9	691.0	676.0	663.2	663.2
17.5°	3853.5	3220.1	2145.3	1277.4	863.7	714.4	654.7	627.0	605.6	590.7	590.7
20°	4147.8	3354.5	1974.8	1049.2	729.3	637.6	590.7	558.8	541.7	528.9	524.6
22.5°	4427.2	3463.2	1757.2	861.5	635.5	573.6	531.0	496.9	479.8	473.4	473.4
25°	4717.2	3529.3	1494.9	712.2	580.0	520.3	473.4	445.7	430.8	426.5	424.4
27.5°	4998.7	3567.8	1264.6	622.7	528.9	471.3	426.5	405.2	390.2	386.0	388.1
30°	5339.9	3574.2	1040.7	558.8	484.1	424.4	383.8	364.7	356.2	351.9	349.8
32.5°	5685.4	3565.6	874.3	520.3	441.4	383.8	349.8	334.8	328.4	322.0	322.0
35°	6073.5	3520.8	744.3	482.0	400.9	349.8	319.9	307.0	298.6	292.2	290.1
37.5°	6555.4	3497.4	669.6	439.3	364.7	317.7	290.1	277.2	270.8	262.3	260.2
40°	7314.6	3601.8	646.1	400.9	328.4	287.9	262.3	247.3	238.8	230.3	228.2
42.5°	8261.5	3785.3	607.8	362.6	296.5	260.2	234.6	217.5	202.6	191.9	187.6
45°	9487.7	4026.3	548.1	322.0	268.7	230.3	206.9	185.5	166.3	157.8	155.7
47.5°	10773.6	4258.7	494.8	290.1	238.8	204.7	179.1	155.7	138.6	132.2	130.1
50°	11562.7	4305.6	460.6	253.8	209.0	177.0	151.4	130.1	119.4	113.0	113.0
52.5°	11923.1	4231.0	413.7	221.8	181.2	155.7	130.1	113.0	106.6	102.3	100.2
55°	12174.7	4115.9	351.9	191.9	155.7	132.2	115.1	102.3	93.9	89.6	87.5
57°	12321.8	3960.1	304.9	168.5	134.4	115.1	102.3	91.7	83.2	74.7	74.7
57.5°	12328.2	3900.4	292.2	166.3	127.9	110.9	100.2	89.6	78.9	70.4	68.2
60°	12138.5	3491.0	234.6	140.8	102.3	93.9	83.2	70.4	55.4	46.9	44.8
62.5°	11528.5	2970.7	194.1	119.4	83.2	72.5	59.7	53.3	38.3	27.8	27.8
65°	10605.2	2409.8	166.3	96.0	68.2	53.3	40.5	38.3	23.5	12.8	10.7
67.5°	9270.2	1876.6	140.8	78.9	57.6	38.3	27.8	25.6	12.8	4.3	0.0
70°	7063.0	1279.5	117.3	64.0	42.6	27.8	19.2	15.0	8.5	2.1	0.0
72.5°	4071.0	703.7	98.1	49.0	32.0	21.4	15.0	8.5	8.5	0.0	0.0
75°	1454.4	302.8	74.7	36.2	25.6	17.1	10.7	4.3	6.4	2.1	0.0
77.5°	462.8	162.1	49.0	27.8	21.4	12.8	8.5	4.3	4.3	2.1	0.0
80°	136.5	85.3	29.9	23.5	15.0	10.7	6.4	2.1	4.3	2.1	0.0
82.5°	74.7	42.6	23.5	17.1	15.0	8.5	6.4	2.1	2.1	2.1	0.0
85°	38.3	25.6	19.2	17.1	15.0	8.5	6.4	2.1	0.0	2.1	2.1
87.5°	21.4	19.2	19.2	17.1	15.0	10.7	6.4	2.1	0.0	0.0	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)