

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: P652573

Luminaire Tested: **GALN-SA8B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652573
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-SA8B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 30937.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

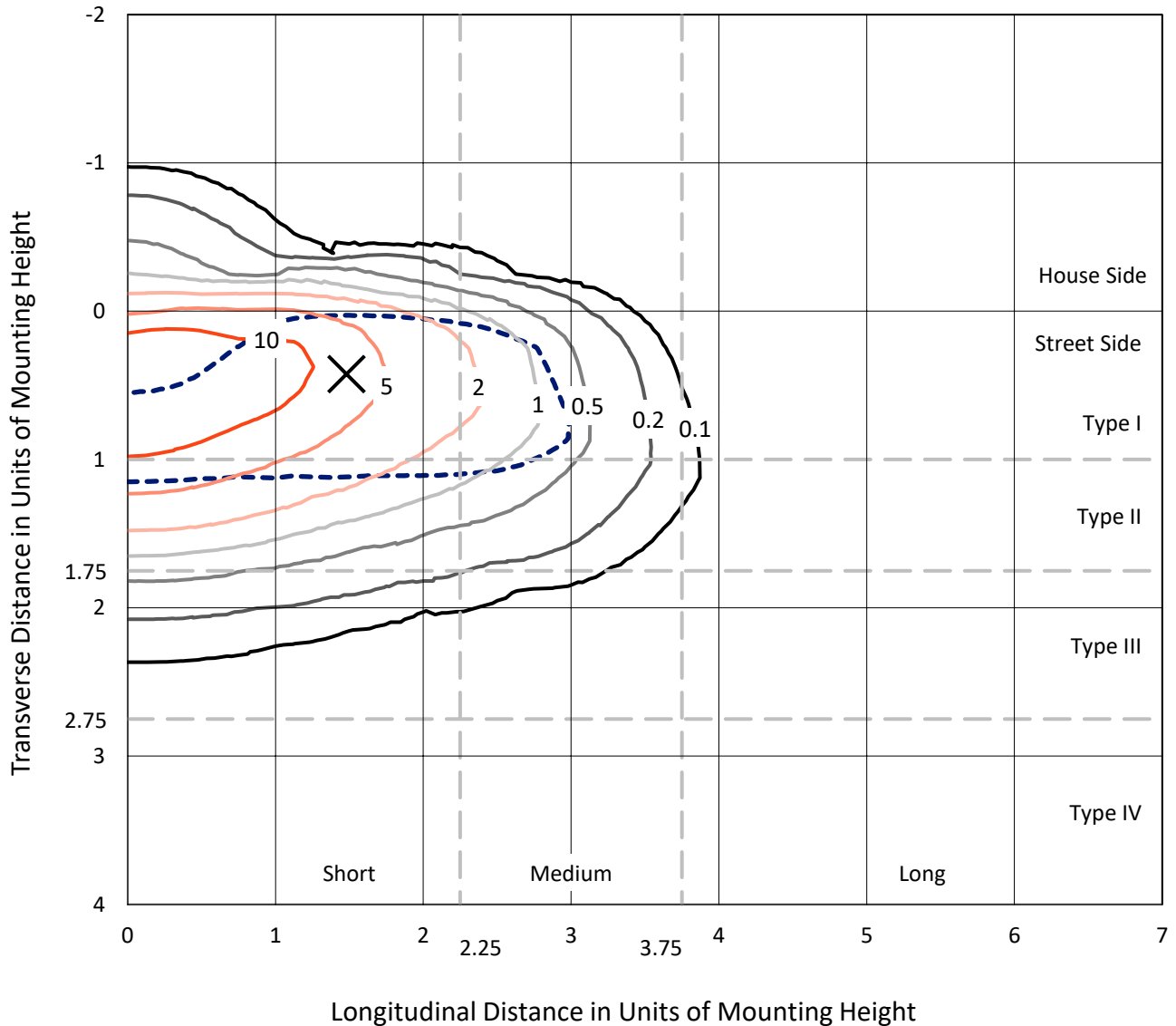
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

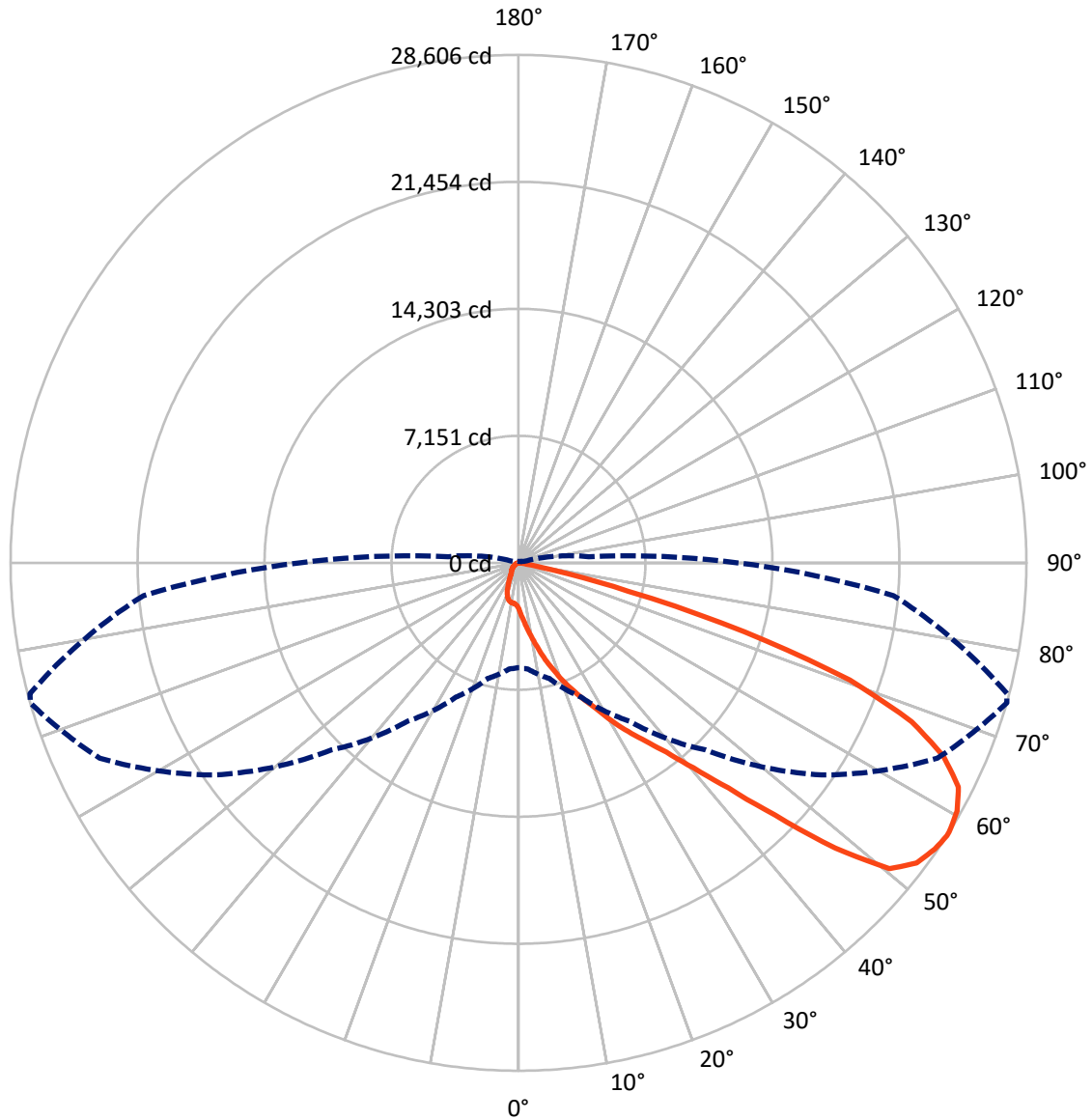
✕ Max cd
 - - - 1/2 Max cd



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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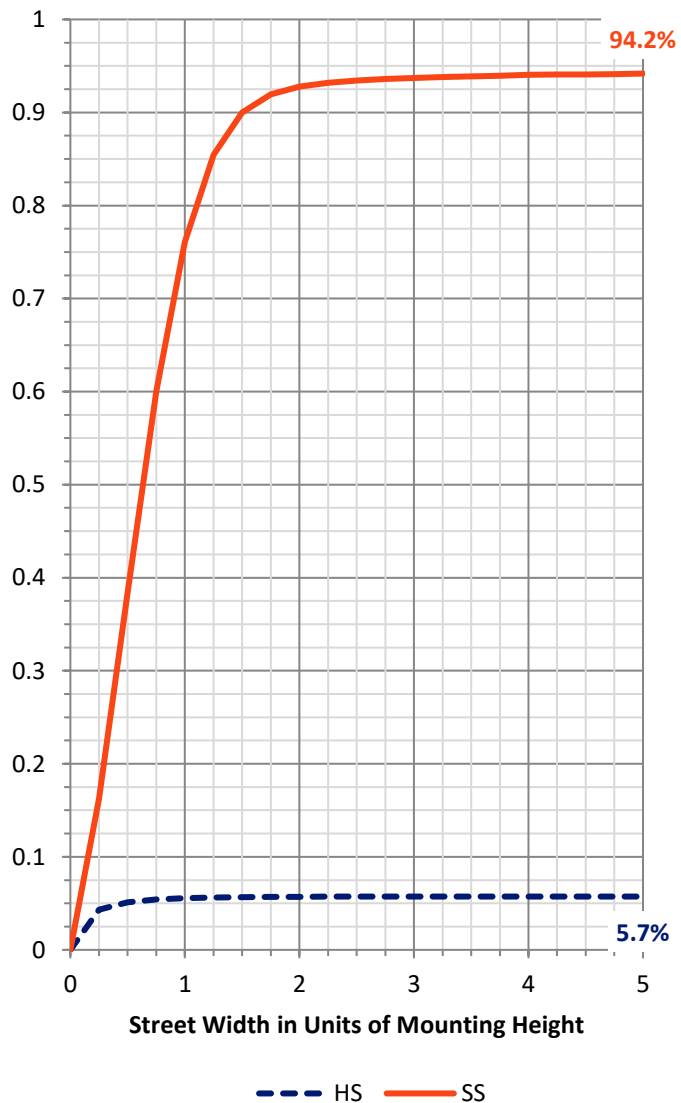
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.4	0.0	1784.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29153.5	0.0	29153.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	30937.9	0.0	30937.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.7	1.0
10°-20°	1232.7	4.0
20°-30°	2637.7	8.5
30°-40°	4848.0	15.7
40°-50°	7432.1	24.0
50°-60°	7862.1	25.4
60°-70°	5134.2	16.6
70°-80°	1402.8	4.5
80°-90°	75.5	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°	30937.9	100.0
0°-180°	30937.9	100.0

Coefficient of Utilization

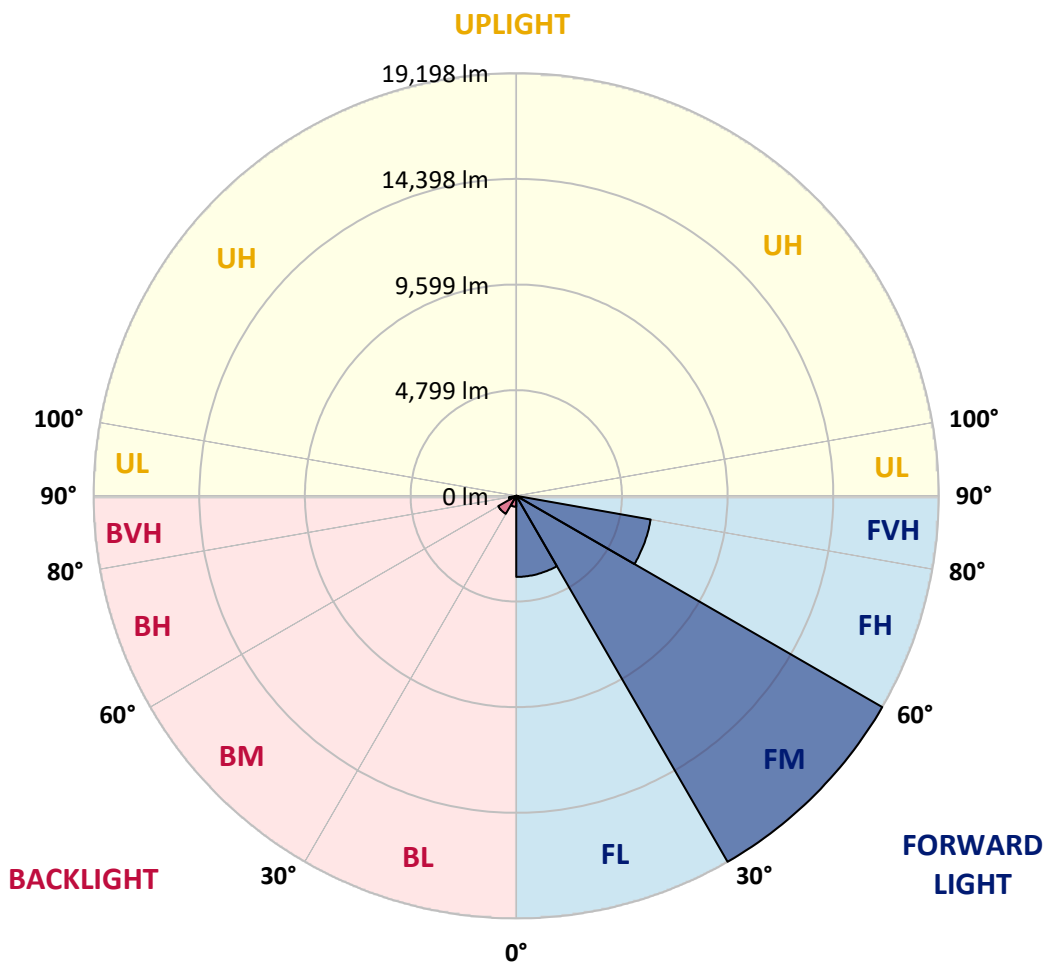


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3684.7	11.9			
FM (30°-60°)	19197.5	62.1			
FH (60°-80°)	6202.0	20.0			G3/7500
FVH (80°-90°)	69.3	0.2			G1/100
BL (0°-30°)	498.4	1.6	B1/500		
BM (30°-60°)	944.7	3.1	B1/1000		
BH (60°-80°)	335.0	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°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	3791.5	3757.3	3689.0	3665.4	3565.0	3409.1	3272.4	3088.7	2943.4	2928.5	2753.3
5°	5077.4	5000.4	4968.4	4814.6	4573.3	4346.8	3958.1	3663.3	3323.6	3298.1	2945.6
7.5°	6316.2	6209.4	6177.4	6032.2	5750.2	5393.5	4889.4	4353.3	3814.9	3765.8	3204.0
10°	7213.3	7228.3	7170.6	7074.6	6846.0	6482.8	5861.3	5128.6	4361.8	4299.9	3494.5
12.5°	7856.3	7854.2	7864.9	7862.8	7741.0	7465.4	6811.8	5968.1	4964.2	4842.4	3827.7
15°	8275.0	8281.4	8313.5	8424.5	8437.3	8266.4	7721.7	6771.2	5662.6	5511.0	4188.8
17.5°	8698.0	8742.8	8794.0	8898.7	8992.7	8924.4	8539.9	7608.5	6294.9	6181.7	4575.4
20°	9396.4	9458.3	9428.5	9492.5	9541.6	9548.0	9251.2	8381.8	7061.7	6871.6	5017.6
22.5°	10513.5	10511.4	10434.5	10319.2	10223.0	10218.7	9949.6	9176.4	7758.1	7574.4	5461.8
25°	11925.5	11931.9	11782.3	11453.4	11214.1	10921.6	10611.8	9872.8	8503.5	8277.1	5929.6
27.5°	13544.6	13504.0	13277.5	12824.7	12350.5	11850.7	11404.3	10682.3	9293.9	9105.9	6465.8
30°	14999.2	14984.3	14719.4	14166.1	13542.5	13040.5	12393.2	11696.9	10317.1	10086.4	7066.0
32.5°	16353.5	16374.8	16007.4	15435.0	14832.6	14253.8	13570.2	12666.6	11321.0	10994.1	7719.6
35°	17410.8	17432.2	17051.9	16575.6	15956.1	15475.6	14824.1	13700.5	12312.1	12036.6	8471.5
37.5°	17974.7	18002.4	17782.4	17423.6	17037.0	16795.6	16189.0	15031.3	13516.8	13350.2	9360.1
40°	18081.5	18113.5	18017.4	17921.3	17899.9	18072.9	17895.6	16599.1	15187.2	14926.6	10684.4
42.5°	17761.1	17803.8	17846.5	18060.1	18495.9	19130.3	19747.6	18726.5	17338.1	16987.9	12303.6
45°	16919.5	16915.2	17084.0	17637.2	18613.3	19967.6	21682.8	21390.2	20268.8	19852.3	14591.3
47.5°	15479.8	15458.4	15823.8	16611.9	18132.8	20121.4	23261.4	24624.1	24009.0	23624.5	17049.8
50°	13286.1	13390.8	13965.4	15065.4	16938.7	19655.8	23748.4	26745.2	27078.4	26670.5	19036.3
52.5°	10716.4	10712.2	11613.6	13106.6	15170.1	18630.5	23408.7	27129.7	28076.0	27764.1	20014.6
55°	7931.1	7986.6	8924.4	10430.3	12873.9	16759.3	22300.2	26734.5	28456.2	28236.2	20659.7
57°	5899.7	5998.0	6749.9	8343.3	10874.6	14907.4	20824.2	26027.5	28605.8	28486.1	21195.8
57.5°	5506.7	5511.0	6243.6	7691.9	10289.3	14196.1	20401.2	25732.7	28601.5	28535.2	21283.4
60°	3389.9	3496.7	4002.9	5199.1	7531.7	11079.6	17566.7	24038.9	28379.3	28475.4	21657.3
62.5°	2029.2	2074.1	2403.1	3133.6	4855.2	8087.1	14375.5	21870.8	27800.4	28093.1	21631.6
65°	1305.1	1315.8	1465.4	1896.8	3035.3	5466.1	11077.5	19006.4	26303.1	26841.4	20785.7
67.5°	1008.2	1025.3	1085.1	1245.3	1760.1	3404.9	7834.9	15949.7	23880.9	24575.0	18735.1
70°	895.0	903.6	924.9	976.1	1164.1	1922.4	4874.4	12459.5	19803.1	19999.7	14661.7
72.5°	730.5	754.0	820.2	837.3	922.7	1200.4	2712.7	8362.6	13305.4	13354.5	8202.4
75°	566.1	570.3	668.6	717.7	777.5	826.6	1211.1	4216.5	6391.0	6049.2	3161.3
77.5°	422.9	442.2	487.0	548.9	634.4	591.6	542.5	1589.2	1984.3	1948.1	918.5
80°	271.3	282.0	339.6	412.3	493.4	386.6	305.5	465.7	435.7	448.6	220.0
82.5°	136.7	138.8	217.9	335.4	314.0	194.4	192.3	190.1	162.3	160.2	102.5
85°	15.0	32.0	141.0	192.3	141.0	64.1	89.7	87.5	85.4	87.5	59.8
87.5°	2.1	2.1	23.5	27.8	19.3	21.4	25.7	27.8	34.1	32.0	25.7
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°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2667.9	2582.5	2424.4	2272.7	2159.5	2086.9	1992.9	1958.8	1909.6	1903.2	1879.7
5°	2783.3	2620.9	2345.4	2127.5	1952.3	1819.9	1704.5	1608.4	1531.5	1514.5	1523.0
7.5°	2947.7	2706.3	2321.8	2025.0	1781.5	1555.0	1371.3	1258.1	1177.0	1147.0	1151.3
10°	3133.6	2819.5	2317.6	1916.1	1544.3	1266.6	1065.9	965.5	918.5	901.4	882.2
12.5°	3353.6	2949.9	2306.9	1747.3	1283.8	1010.4	867.2	807.4	762.5	749.8	749.8
15°	3601.3	3088.7	2255.6	1537.9	1042.4	835.2	739.1	692.1	677.1	664.3	664.3
17.5°	3859.8	3225.4	2148.8	1279.5	865.1	715.6	655.7	628.0	606.6	591.6	591.6
20°	4154.5	3360.0	1977.9	1050.9	730.5	638.7	591.6	559.6	542.5	529.7	525.5
22.5°	4434.4	3469.0	1760.1	863.0	636.6	574.6	531.8	497.7	480.6	474.2	474.2
25°	4724.9	3535.1	1497.3	713.4	581.0	521.2	474.2	446.4	431.5	427.2	425.0
27.5°	5006.9	3573.6	1266.6	623.7	529.7	472.1	427.2	405.9	390.9	386.6	388.8
30°	5348.6	3580.0	1042.4	559.6	484.9	425.0	384.5	365.2	356.8	352.5	350.3
32.5°	5694.7	3571.5	875.7	521.2	442.2	384.5	350.3	335.4	328.9	322.5	322.5
35°	6083.5	3526.6	745.5	482.7	401.6	350.3	320.4	307.6	299.1	292.7	290.5
37.5°	6566.2	3503.1	670.7	440.0	365.2	318.2	290.5	277.7	271.3	262.7	260.6
40°	7326.6	3607.7	647.2	401.6	328.9	288.4	262.7	247.8	239.3	230.7	228.6
42.5°	8275.0	3791.5	608.8	363.1	296.9	260.6	235.0	217.9	202.9	192.3	188.0
45°	9503.2	4032.8	548.9	322.5	269.1	230.7	207.2	185.9	166.6	158.1	155.9
47.5°	10791.2	4265.6	495.6	290.5	239.3	205.0	179.4	155.9	138.8	132.5	130.3
50°	11581.6	4312.6	461.4	254.2	209.3	177.3	151.6	130.3	119.6	113.2	113.2
52.5°	11942.5	4237.9	414.4	222.1	181.6	155.9	130.3	113.2	106.8	102.5	100.4
55°	12194.6	4122.6	352.5	192.3	155.9	132.5	115.4	102.5	94.0	89.7	87.5
57°	12342.0	3966.6	305.5	168.7	134.6	115.4	102.5	91.8	83.3	74.8	74.8
57.5°	12348.4	3906.8	292.7	166.6	128.2	111.1	100.4	89.7	79.1	70.5	68.4
60°	12158.3	3496.7	235.0	141.0	102.5	94.0	83.3	70.5	55.5	47.0	44.8
62.5°	11547.4	2975.5	194.4	119.6	83.3	72.7	59.8	53.4	38.4	27.8	27.8
65°	10622.5	2413.8	166.6	96.1	68.4	53.4	40.6	38.4	23.5	12.8	10.7
67.5°	9285.3	1879.7	141.0	79.1	57.7	38.4	27.8	25.7	12.8	4.3	0.0
70°	7074.6	1281.6	117.5	64.1	42.7	27.8	19.3	15.0	8.6	2.1	0.0
72.5°	4077.7	704.9	98.2	49.1	32.0	21.4	15.0	8.6	8.6	0.0	0.0
75°	1456.8	303.3	74.8	36.3	25.7	17.1	10.7	4.3	6.4	2.1	0.0
77.5°	463.6	162.3	49.1	27.8	21.4	12.8	8.6	4.3	4.3	2.1	0.0
80°	136.7	85.4	29.9	23.5	15.0	10.7	6.4	2.1	4.3	2.1	0.0
82.5°	74.8	42.7	23.5	17.1	15.0	8.6	6.4	2.1	2.1	2.1	0.0
85°	38.4	25.7	19.3	17.1	15.0	8.6	6.4	2.1	0.0	2.1	2.1
87.5°	21.4	19.3	19.3	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)