

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: P455669

Luminaire Tested: **GALN-SA6D-760-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33185 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

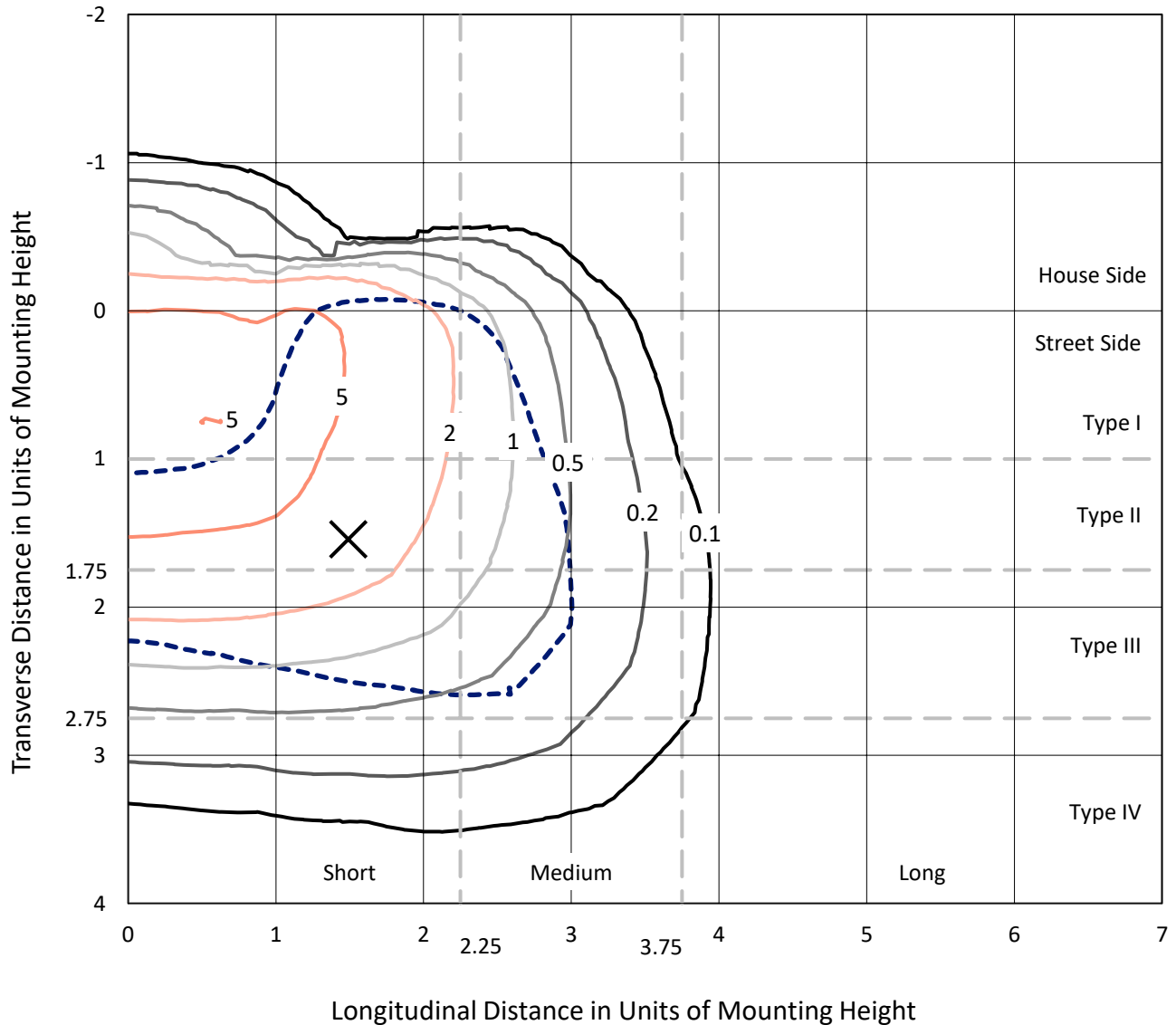
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

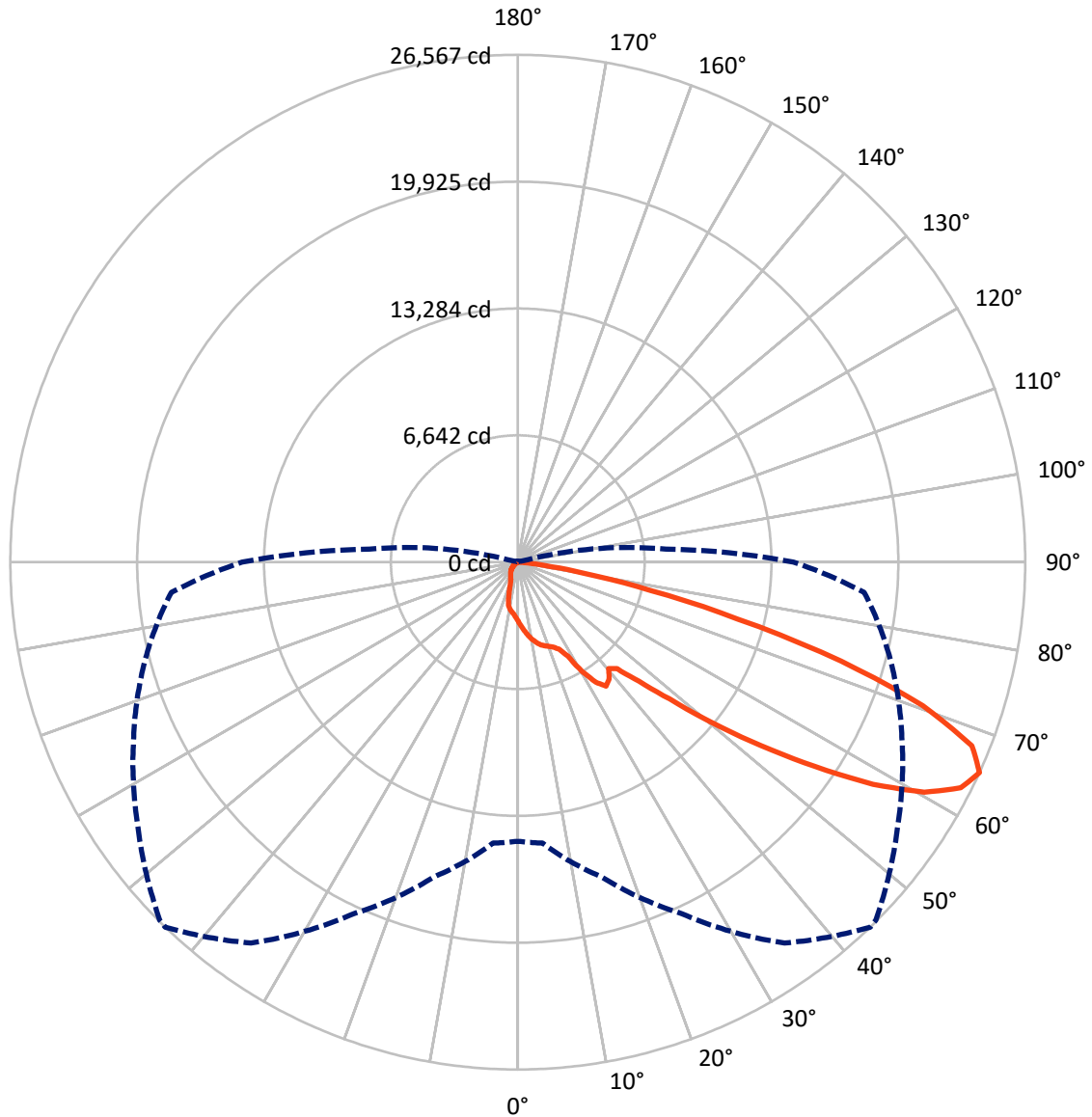
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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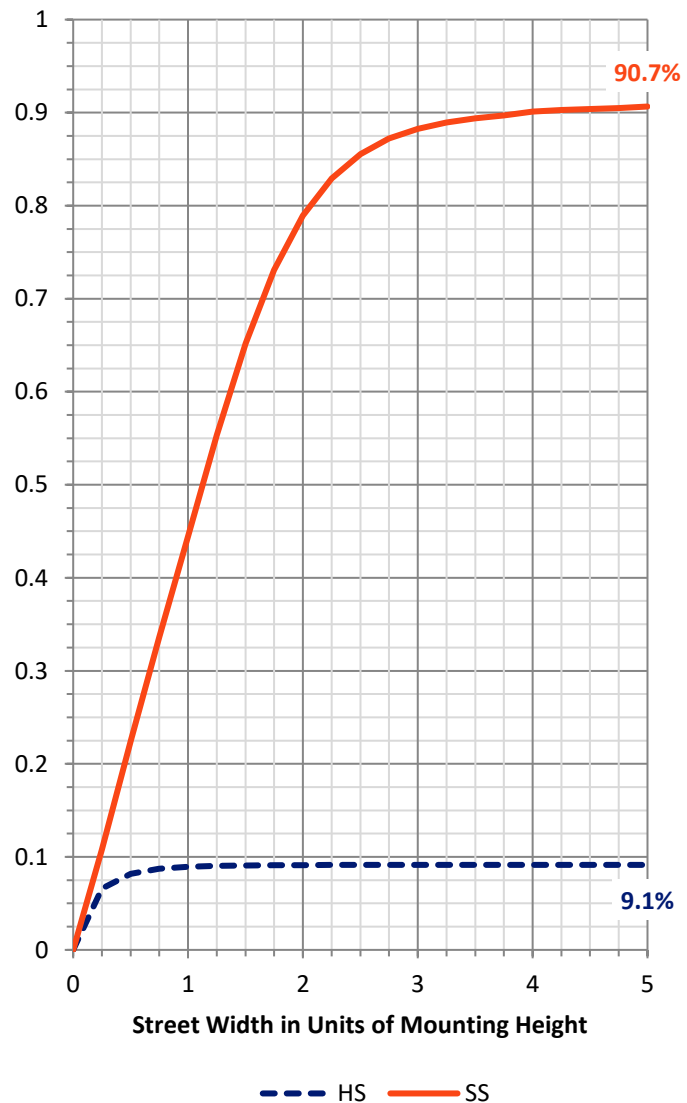
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3057.5	0.0	3057.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	30127.5	0.0	30127.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	33185.0	0.0	33185.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	0.9
10°-20°	924.5	2.8
20°-30°	1567.7	4.7
30°-40°	2606.5	7.9
40°-50°	4551.0	13.7
50°-60°	8891.1	26.8
60°-70°	10315.8	31.1
70°-80°	3756.5	11.3
80°-90°	264.7	0.8
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°	33185.0	100.0
0°-180°	33185.0	100.0



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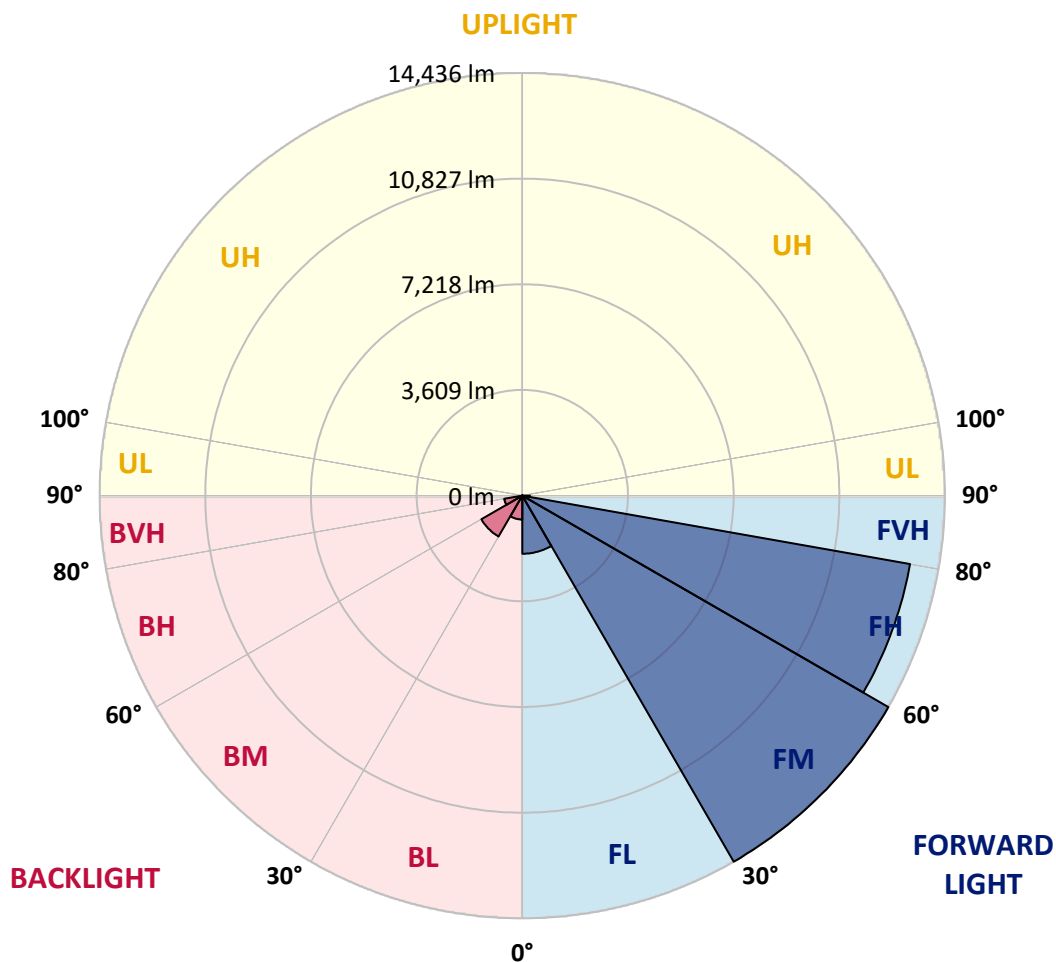
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1984.8	6.0			
FM	(30°-60°)	14435.5	43.5			
FH	(60°-80°)	13446.1	40.5			G5
FVH	(80°-90°)	261.1	0.8			G3/500
BL	(0°-30°)	814.6	2.5	B2/1000		
BM	(30°-60°)	1613.1	4.9	B2/2500		
BH	(60°-80°)	626.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5
2.5°	3476.5	3461.3	3453.7	3413.1	3382.7	3344.6	3344.6	3296.5	3240.7	3179.8	3124.0
5°	3864.5	3839.1	3806.1	3770.6	3699.6	3598.2	3598.2	3496.8	3380.1	3276.2	3162.1
7.5°	4237.2	4214.4	4158.6	4090.2	3973.5	3867.0	3859.4	3712.3	3572.9	3415.6	3253.4
10°	4564.3	4546.6	4498.4	4366.5	4244.8	4105.4	4102.8	3938.0	3775.7	3583.0	3382.7
12.5°	4792.6	4795.1	4731.7	4604.9	4447.7	4315.8	4305.7	4143.4	3973.5	3765.6	3519.6
15°	4954.8	4954.8	4888.9	4746.9	4604.9	4488.3	4478.1	4336.1	4161.2	3935.5	3669.2
17.5°	5000.5	5015.7	4944.7	4817.9	4703.8	4602.4	4599.8	4480.7	4341.2	4123.1	3821.4
20°	4982.7	4997.9	4942.2	4843.3	4764.7	4706.3	4698.7	4650.6	4521.2	4315.8	3983.7
22.5°	4944.7	4959.9	4919.3	4861.0	4823.0	4840.7	4828.1	4868.6	4800.2	4551.7	4176.4
25°	4952.3	4967.5	4937.1	4904.1	4937.1	5046.1	5079.1	5254.1	5193.2	4850.9	4384.3
27.5°	5190.7	5221.1	5178.0	5193.2	5309.8	5563.4	5626.8	5928.6	5659.8	5231.2	4708.9
30°	5720.6	5700.3	5619.2	5692.7	6098.5	6636.0	6618.3	6570.1	6149.2	5669.9	5094.3
32.5°	6202.4	6184.7	6179.6	6496.6	7231.9	7493.1	7480.4	7013.9	6587.9	6172.0	5474.7
35°	6397.7	6329.2	6314.0	7082.3	8312.2	7967.3	7888.7	7196.4	7120.4	6719.7	5862.6
37.5°	6986.0	6937.8	6702.0	7178.7	7881.1	7767.0	7706.1	7510.9	7688.4	7204.0	6301.3
40°	8198.1	8063.7	7850.7	7384.1	7270.0	7318.2	7379.0	7914.1	8360.3	7865.9	6887.1
42.5°	9704.3	9673.9	9278.3	8408.5	7554.0	7619.9	7698.5	8755.9	9326.5	8862.4	7843.1
45°	11512.3	11555.4	10984.8	9957.9	8837.1	8892.8	9007.0	9998.4	10634.9	10411.8	9346.7
47.5°	13155.4	13122.5	12929.7	11862.2	10827.6	10703.4	10888.5	11593.4	12445.4	12480.9	11213.1
50°	14808.7	14983.7	14697.2	14278.8	13510.4	13249.3	13180.8	13525.6	14823.9	14654.1	13454.6
52.5°	17184.7	17276.0	16738.4	16631.9	16806.9	15960.0	15891.5	15975.2	17136.5	16553.3	15133.3
55°	18678.3	18625.0	18424.7	19256.4	19948.7	18891.3	18805.1	18467.8	19056.1	17894.7	16748.6
57.5°	19149.9	19226.0	19692.6	21196.3	22834.4	21936.7	21779.5	20821.0	20440.6	19144.9	18234.5
60°	18939.5	19078.9	20085.6	22322.1	24594.2	24459.8	24325.4	22715.2	21434.6	20189.6	19276.7
62.5°	17440.8	17636.1	19246.3	22121.8	25190.1	26029.4	25862.0	23896.8	22096.5	20696.7	19459.3
65°	14616.0	14760.6	17073.2	20303.7	24343.1	26567.0	26506.1	24267.1	22200.4	20232.7	18209.2
67.5°	10419.4	10911.3	13054.0	17111.2	21837.8	25649.0	25753.0	23823.3	21224.2	18226.9	15080.1
70°	6549.8	6884.5	8421.2	12250.2	17506.8	22502.2	22844.5	21792.2	18419.6	14207.8	10094.8
72.5°	3124.0	3372.5	4468.0	7754.3	12356.7	17704.6	17975.9	17889.7	14243.3	8951.2	5208.4
75°	1392.1	1485.9	2132.6	3958.3	7977.4	11900.2	12602.6	12719.3	8900.5	4379.2	2026.1
77.5°	710.0	712.5	999.1	1917.0	3983.7	7100.1	7239.5	7647.8	4825.5	1929.7	704.9
80°	377.8	403.2	530.0	905.3	2066.6	3496.8	3479.0	3823.9	2140.2	945.8	235.8
82.5°	169.9	187.6	299.2	474.2	1009.2	1326.2	1430.2	1564.6	917.9	603.5	104.0
85°	50.7	60.9	147.1	238.4	365.1	382.9	428.5	552.8	519.8	428.5	53.3
87.5°	7.6	7.6	60.9	65.9	53.3	68.5	71.0	78.6	167.4	157.2	27.9
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°	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5	3088.5
2.5°	3093.6	3075.9	3012.5	2959.2	2913.6	2885.7	2852.7	2832.4	2822.3	2814.7	2817.2
5°	3106.3	3063.2	2954.1	2867.9	2802.0	2731.0	2682.8	2654.9	2642.2	2622.0	2622.0
7.5°	3177.3	3108.8	2956.7	2824.8	2710.7	2614.4	2523.1	2490.1	2467.3	2462.2	2457.1
10°	3278.7	3192.5	2984.6	2802.0	2639.7	2507.8	2378.5	2264.4	2175.7	2122.4	2114.8
12.5°	3405.5	3281.3	3027.7	2786.8	2578.8	2345.6	2003.2	1772.5	1617.8	1569.6	1577.2
15°	3522.1	3387.8	3070.8	2774.1	2467.3	1944.9	1556.9	1293.2	1214.6	1207.0	1209.5
17.5°	3661.6	3501.9	3121.5	2756.4	2160.5	1485.9	1156.3	1085.3	1100.5	1125.9	1123.3
20°	3806.1	3623.6	3182.4	2649.9	1724.3	1118.3	1021.9	1029.5	1052.3	1075.2	1080.2
22.5°	3960.8	3763.0	3253.4	2393.7	1316.1	973.7	968.7	978.8	1001.6	1027.0	1032.0
25°	4173.8	3938.0	3306.6	2059.0	996.5	900.2	910.3	928.1	948.4	976.3	981.3
27.5°	4447.7	4173.8	3334.5	1622.9	862.2	834.3	836.8	862.2	887.5	912.9	912.9
30°	4802.7	4455.3	3278.7	1227.3	796.2	770.9	760.7	775.9	808.9	834.3	836.8
32.5°	5119.7	4721.6	3131.6	938.2	748.0	712.5	687.2	689.7	702.4	717.6	720.2
35°	5436.6	4980.2	2880.6	788.6	697.3	656.8	618.7	598.4	588.3	580.7	588.3
37.5°	5842.3	5302.2	2545.9	717.6	654.2	603.5	550.3	507.1	471.6	448.8	453.9
40°	6364.7	5748.5	2150.3	672.0	613.6	552.8	481.8	426.0	365.1	344.9	334.7
42.5°	7226.9	6425.6	1734.4	633.9	573.1	499.5	410.8	334.7	278.9	258.6	263.7
45°	8588.6	7280.1	1336.3	593.4	532.5	441.2	344.9	263.7	218.1	207.9	213.0
47.5°	10394.0	8385.7	1029.5	547.7	481.8	377.8	271.3	207.9	180.0	177.5	175.0
50°	12093.0	9415.2	859.6	497.0	420.9	314.4	223.1	175.0	157.2	154.7	154.7
52.5°	13629.6	10153.1	699.9	438.7	355.0	258.6	187.6	154.7	139.5	131.9	131.9
55°	14996.4	10634.9	568.0	367.7	278.9	205.4	162.3	139.5	121.7	111.6	109.0
57.5°	16028.4	10693.2	426.0	294.1	207.9	159.8	139.5	121.7	101.4	88.8	83.7
60°	16469.6	10188.6	314.4	223.1	154.7	126.8	111.6	98.9	76.1	63.4	60.9
62.5°	16025.9	9207.3	233.3	169.9	119.2	93.8	78.6	73.5	53.3	38.0	35.5
65°	14436.0	7789.8	185.1	129.3	88.8	68.5	50.7	48.2	33.0	17.8	15.2
67.5°	11565.5	6101.0	147.1	96.4	63.4	45.6	33.0	30.4	17.8	5.1	5.1
70°	7521.0	3900.0	119.2	71.0	40.6	30.4	20.3	15.2	10.1	2.5	0.0
72.5°	3719.9	1823.2	96.4	55.8	27.9	15.2	7.6	5.1	7.6	0.0	0.0
75°	1442.8	649.1	71.0	38.0	15.2	7.6	5.1	0.0	2.5	0.0	0.0
77.5°	479.3	215.5	43.1	20.3	10.1	5.1	0.0	0.0	0.0	0.0	0.0
80°	177.5	83.7	22.8	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	71.0	33.0	15.2	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	20.3	10.1	7.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.4	15.2	10.1	7.6	5.1	2.5	0.0	0.0	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)