

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: P532387

Luminaire Tested: **GALN-SA7D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36606 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

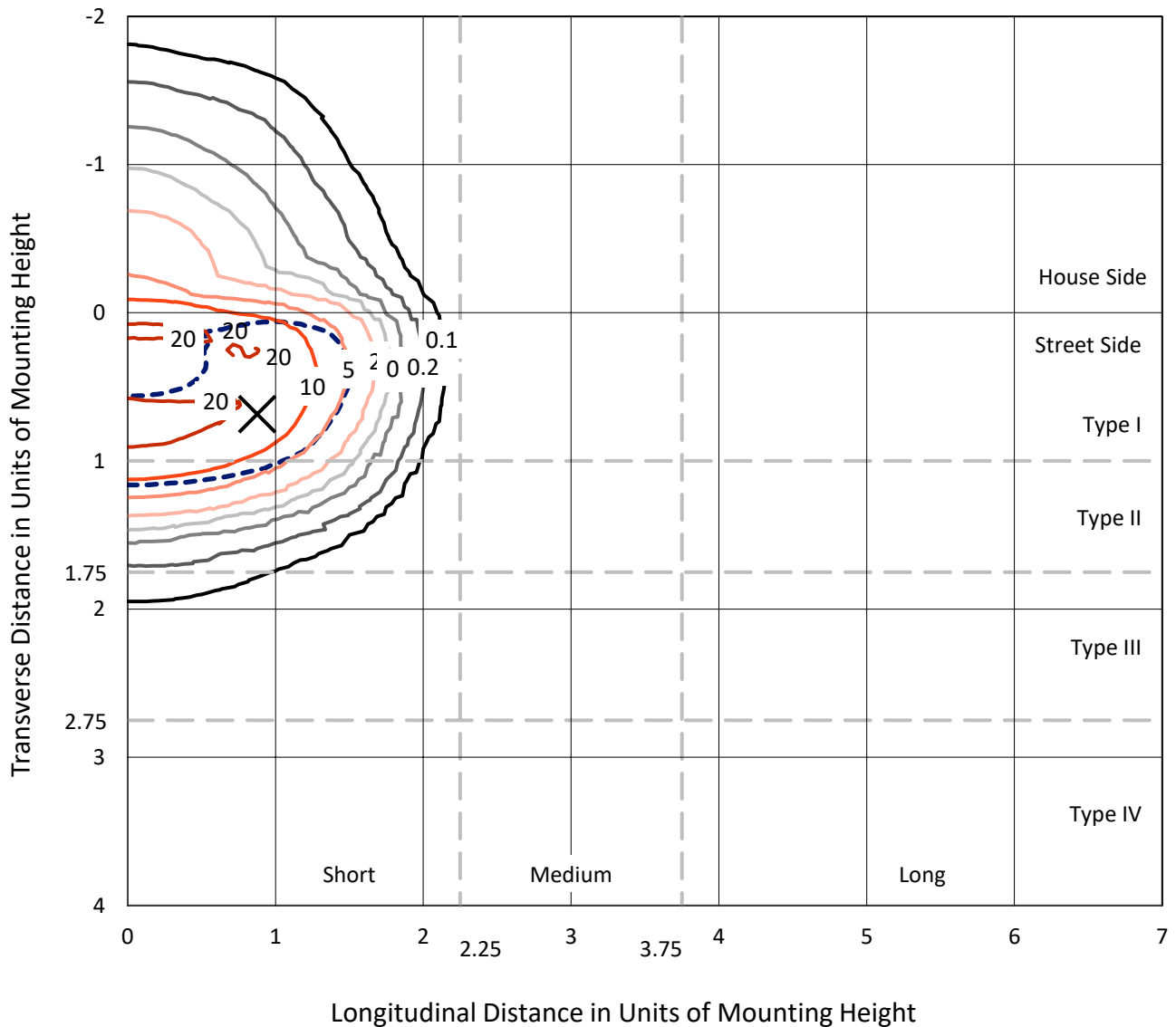
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

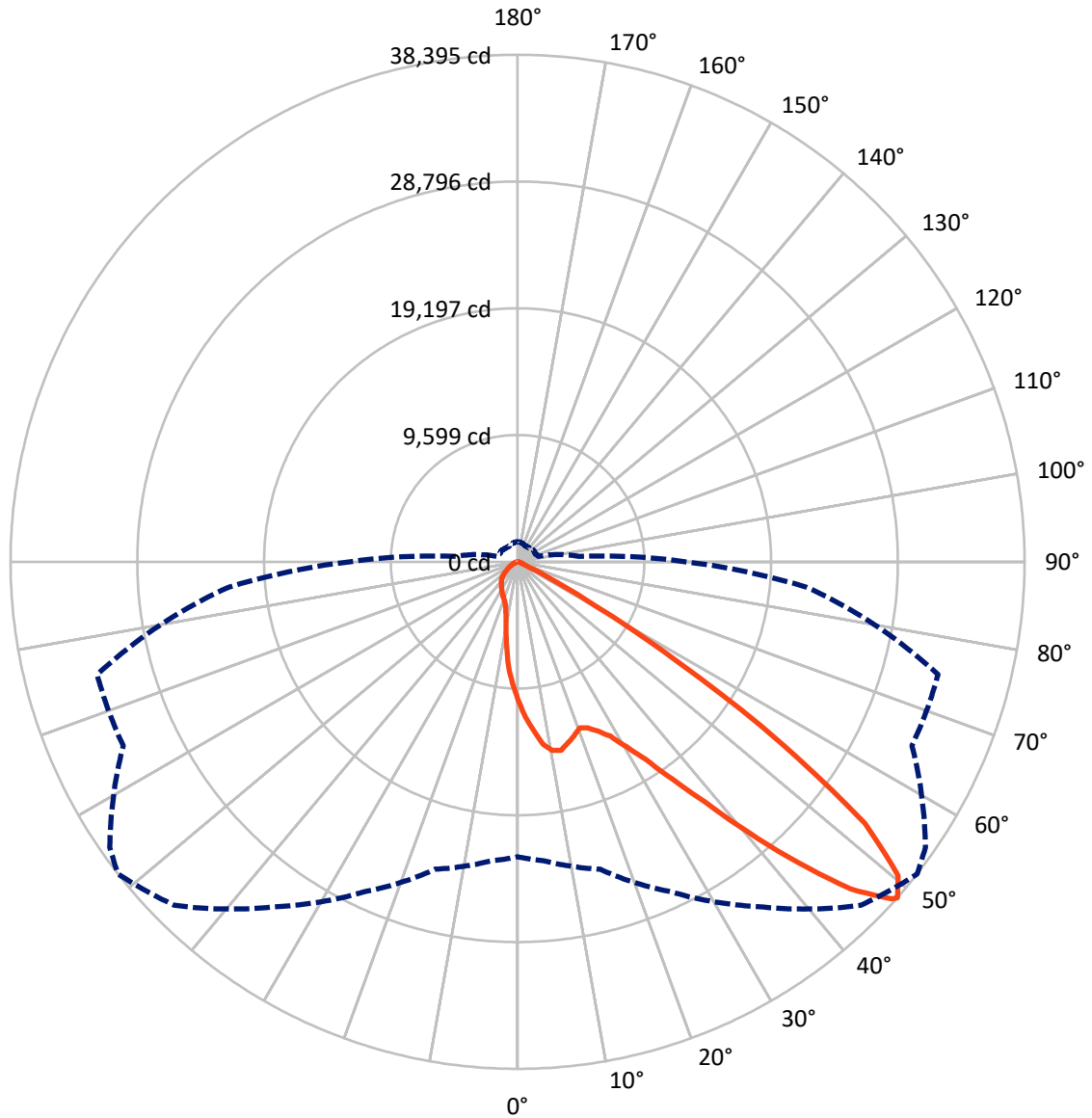
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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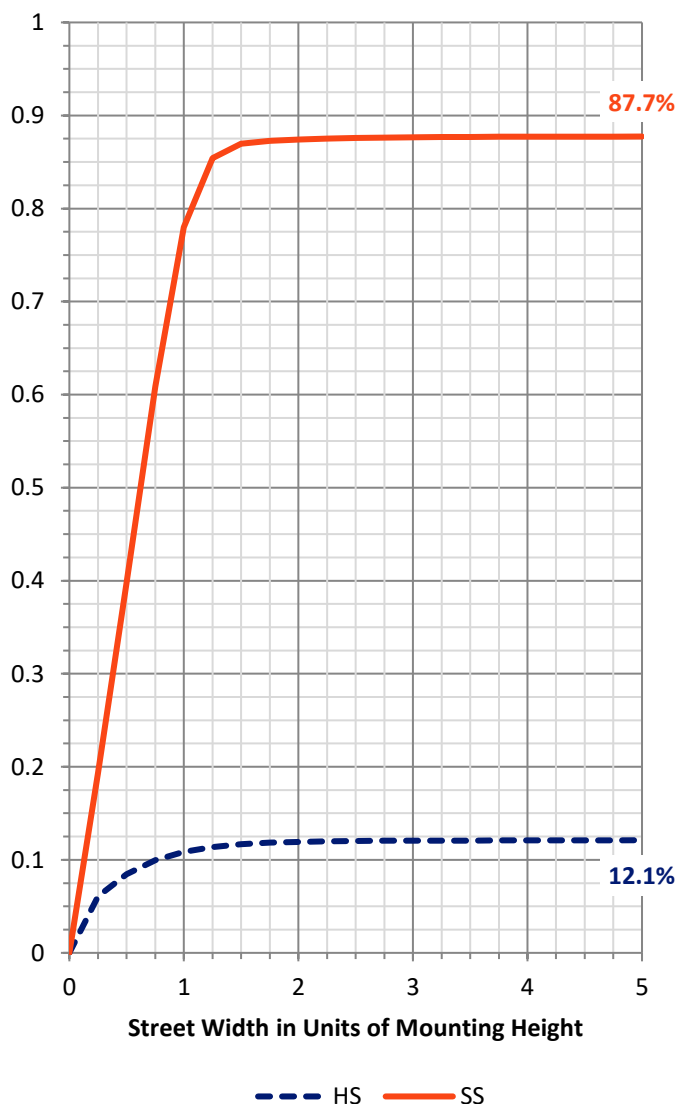
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4457.1	0.0	4457.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32148.9	0.0	32148.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	36606.0	0.0	36606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.6	2.6
10°-20°	2528.6	6.9
20°-30°	4317.4	11.8
30°-40°	7950.4	21.7
40°-50°	12347.0	33.7
50°-60°	7430.8	20.3
60°-70°	859.4	2.3
70°-80°	166.4	0.5
80°-90°	38.5	0.1
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°	36606.0	100.0
0°-180°	36606.0	100.0

Coefficient of Utilization



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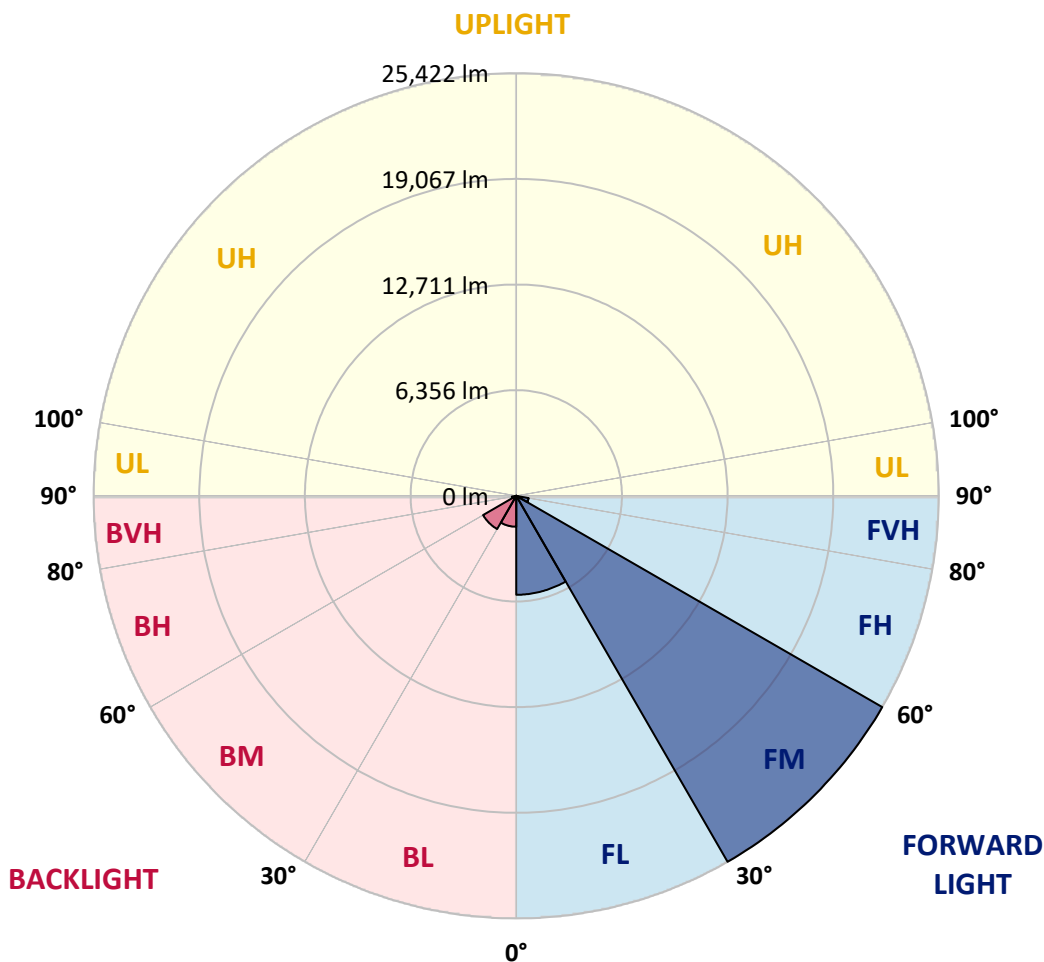
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5951.7	16.3			
FM (30°-60°)	25422.2	69.4			
FH (60°-80°)	756.8	2.1			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1861.9	5.1	B3/2500		
BM (30°-60°)	2306.0	6.3	B2/2500		
BH (60°-80°)	269.0	0.7	B1/500		G1/500
BVH (80°-90°)	20.2	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°	52°	55°	65°	75°	85°
0°	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2
2.5°	12812.4	12519.0	12545.6	12353.5	12241.5	12060.0	11814.6	11766.5	11499.7	11136.9	10768.6
5°	13965.1	13895.7	13986.4	13708.9	13719.6	13420.8	12844.5	12855.1	12241.5	11649.1	11078.2
7.5°	14039.8	13879.7	13970.4	14215.9	14360.0	14306.6	13981.1	13698.3	13116.6	12246.8	11414.3
10°	12572.3	12876.5	12972.5	13378.1	13954.4	14562.8	14525.4	14541.4	14055.8	12919.2	11702.5
12.5°	11691.8	11489.0	11814.6	12060.0	12929.8	14109.2	14648.1	14765.5	14802.9	13570.2	11990.7
15°	11291.6	11291.6	11345.0	11414.3	12044.0	13132.6	14231.9	14573.4	15379.2	14424.0	12444.2
17.5°	11542.4	11531.7	11606.4	11462.4	11697.2	12535.0	13847.7	14237.2	16024.9	15261.8	12801.8
20°	12305.5	12342.9	12294.8	11878.6	11894.6	12524.3	13420.8	14034.5	16462.5	15987.5	13276.7
22.5°	13367.4	13388.8	13116.6	12663.0	12529.6	12839.1	13666.3	14135.9	16814.7	16857.4	13420.8
25°	14594.8	14509.4	14456.0	13815.7	13410.1	13676.9	14221.2	14493.4	17033.5	17604.4	13831.7
27.5°	16297.1	16126.3	15800.8	15229.8	14931.0	14552.1	14941.6	15389.9	17657.8	18650.4	14279.9
30°	18810.4	18661.0	18026.0	17289.6	16505.2	16131.6	16254.4	16499.8	18783.8	19861.7	14872.3
32.5°	22593.9	22279.0	21361.2	19957.8	18890.5	17860.6	17828.6	18090.0	19792.3	21537.3	15576.7
35°	26761.5	26665.5	25315.4	23869.3	21804.1	20213.9	20240.6	20379.3	21724.1	23735.9	16499.8
37.5°	29531.1	30059.4	29200.2	27647.4	25913.1	23639.8	23063.5	23111.5	24376.2	26340.0	18164.8
40°	31670.9	31222.7	31324.1	30961.2	29776.5	28229.0	26953.6	26702.8	27444.6	29221.6	19819.0
42.5°	30737.1	30758.4	31382.8	32241.9	32535.4	32423.3	31121.3	30646.4	30070.0	31580.2	21393.2
45°	28100.9	28650.6	29461.7	31735.0	33730.7	35603.8	35347.6	34557.9	31884.4	33447.9	22300.4
47.5°	23895.9	23874.6	25203.3	28159.6	32594.1	36980.5	38143.9	37588.9	33170.4	33239.8	22113.6
48°	22343.1	22727.3	24098.7	27578.0	31873.7	36777.8	38394.7	37695.6	32951.6	32962.3	21953.5
50°	16515.8	16446.5	18154.1	22423.1	28469.1	34557.9	37338.1	37882.4	32946.3	31558.9	20832.9
52.5°	8724.8	9023.7	10267.0	14098.5	20128.5	28282.4	32935.6	33784.1	31783.0	29264.3	19221.3
55°	3708.7	3351.2	4306.4	6366.2	11323.6	18895.8	24162.8	26051.8	26873.6	25897.1	16814.7
57.5°	1323.4	1446.1	1664.9	2396.0	4760.0	10341.7	14408.0	15875.5	18618.3	19002.6	11457.0
60°	848.5	864.5	933.9	1099.3	1787.7	3986.2	6835.8	8004.4	9247.8	9546.6	5347.0
62.5°	656.4	661.7	693.7	720.4	848.5	1547.5	2566.8	3041.7	3159.1	2716.2	1403.4
65°	549.6	555.0	565.6	565.6	603.0	725.7	896.5	987.2	960.5	949.9	795.1
67.5°	421.6	432.2	453.6	453.6	474.9	442.9	496.3	528.3	597.7	725.7	677.7
70°	330.9	336.2	352.2	362.9	362.9	320.2	357.5	389.5	437.6	539.0	533.6
72.5°	256.1	266.8	277.5	277.5	261.5	218.8	256.1	282.8	314.8	373.5	362.9
75°	197.4	197.4	202.8	165.4	128.1	112.1	154.8	186.8	234.8	245.5	202.8
77.5°	53.4	58.7	53.4	48.0	53.4	80.0	101.4	117.4	149.4	149.4	133.4
80°	0.0	5.3	16.0	32.0	53.4	74.7	90.7	101.4	117.4	128.1	122.7
82.5°	0.0	5.3	16.0	32.0	48.0	58.7	80.0	85.4	96.1	112.1	112.1
85°	0.0	5.3	10.7	21.3	32.0	37.4	37.4	32.0	32.0	26.7	21.3
87.5°	0.0	0.0	5.3	10.7	10.7	16.0	16.0	16.0	16.0	16.0	16.0
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°	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2	10571.2
2.5°	10624.6	10459.1	10208.3	9813.5	9434.6	9189.1	8954.3	8692.8	8548.7	8538.1	8458.0
5°	10752.6	10379.1	9781.4	9103.7	8378.0	7753.6	7124.0	6713.1	6344.9	6142.1	6104.7
7.5°	10822.0	10336.4	9370.5	8233.9	6995.9	5976.7	5272.3	4754.6	4551.9	4402.4	4397.1
10°	10966.1	10261.7	8756.9	7081.3	5549.7	4519.8	4034.2	3799.4	3687.4	3644.7	3580.7
12.5°	11072.8	10123.0	8127.2	5896.6	4386.4	3746.1	3532.6	3479.3	3484.6	3505.9	3479.3
15°	11222.2	10000.2	7278.7	4840.0	3682.0	3372.5	3372.5	3383.2	3457.9	3468.6	3463.3
17.5°	11211.6	9760.1	6403.6	3986.2	3255.1	3212.5	3228.5	3329.8	3377.9	3393.9	3356.5
20°	11339.6	9536.0	5501.7	3404.6	3015.0	3079.0	3185.8	3212.5	3271.2	3281.8	3239.1
22.5°	11302.3	8975.7	4663.9	2945.6	2833.6	2956.3	3063.0	3095.1	3079.0	3047.0	3041.7
25°	11232.9	8495.4	3895.5	2641.5	2700.2	2833.6	2935.0	2876.3	2844.2	2849.6	2854.9
27.5°	11110.2	7887.0	3260.5	2428.0	2518.7	2716.2	2710.8	2689.5	2721.5	2694.8	2721.5
30°	11088.8	7278.7	2737.5	2235.9	2385.3	2529.4	2540.1	2577.4	2614.8	2566.8	2614.8
32.5°	11120.8	6611.7	2364.0	2118.5	2305.3	2310.6	2428.0	2465.4	2438.7	2332.0	2342.6
35°	11366.3	6099.4	2091.8	2054.5	2177.2	2182.5	2294.6	2246.6	2129.2	2065.1	2102.5
37.5°	11883.9	5672.5	1963.8	1995.8	2006.4	2075.8	2081.2	1985.1	1995.8	1990.4	2011.8
40°	12545.6	5347.0	1873.0	1942.4	1931.7	1979.8	1787.7	1841.0	1889.0	1905.1	1915.7
42.5°	12999.2	5112.2	1814.3	1857.0	1835.7	1750.3	1643.6	1696.9	1734.3	1793.0	1803.7
45°	13202.0	4925.4	1745.0	1707.6	1707.6	1552.9	1510.2	1520.8	1606.2	1670.3	1659.6
47.5°	12871.1	4744.0	1622.2	1510.2	1547.5	1419.5	1371.4	1371.4	1462.1	1542.2	1526.2
48°	12743.1	4669.3	1627.6	1467.5	1494.2	1398.1	1350.1	1339.4	1440.8	1515.5	1515.5
50°	12108.1	4391.8	1488.8	1350.1	1296.7	1286.0	1254.0	1264.7	1328.7	1398.1	1398.1
52.5°	10870.0	3794.1	1259.4	1158.0	1061.9	1126.0	1142.0	1120.6	1152.6	1216.7	1211.3
55°	9071.7	2913.6	1008.6	960.5	885.8	955.2	987.2	960.5	928.5	976.5	976.5
57.5°	5811.2	1568.9	805.8	816.5	741.7	811.1	837.8	773.8	715.1	752.4	747.1
60°	2620.1	939.2	661.7	645.7	597.7	677.7	720.4	645.7	565.6	592.3	619.0
62.5°	981.9	667.0	501.6	490.9	480.3	555.0	576.3	517.6	437.6	453.6	458.9
65°	720.4	587.0	400.2	362.9	384.2	437.6	426.9	368.2	314.8	314.8	325.5
67.5°	613.7	512.3	325.5	282.8	282.8	288.2	266.8	234.8	218.8	229.5	240.1
70°	480.3	405.6	256.1	218.8	197.4	176.1	154.8	149.4	133.4	149.4	144.1
72.5°	309.5	272.2	197.4	165.4	149.4	122.7	101.4	96.1	80.0	74.7	74.7
75°	165.4	165.4	154.8	133.4	117.4	96.1	80.0	64.0	42.7	32.0	32.0
77.5°	117.4	128.1	138.7	128.1	106.7	80.0	64.0	42.7	21.3	10.7	10.7
80°	112.1	128.1	138.7	122.7	106.7	80.0	58.7	32.0	16.0	5.3	5.3
82.5°	101.4	117.4	128.1	112.1	96.1	69.4	53.4	32.0	16.0	5.3	5.3
85°	21.3	26.7	32.0	32.0	37.4	48.0	37.4	26.7	10.7	5.3	5.3
87.5°	16.0	16.0	16.0	16.0	16.0	16.0	10.7	10.7	5.3	5.3	5.3
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)