

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: P651112

Luminaire Tested: **GALN-SA9C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651112
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-SA9C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA 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: 39985.4 lumens
Efficiency: N/A
Efficacy: 83.1 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

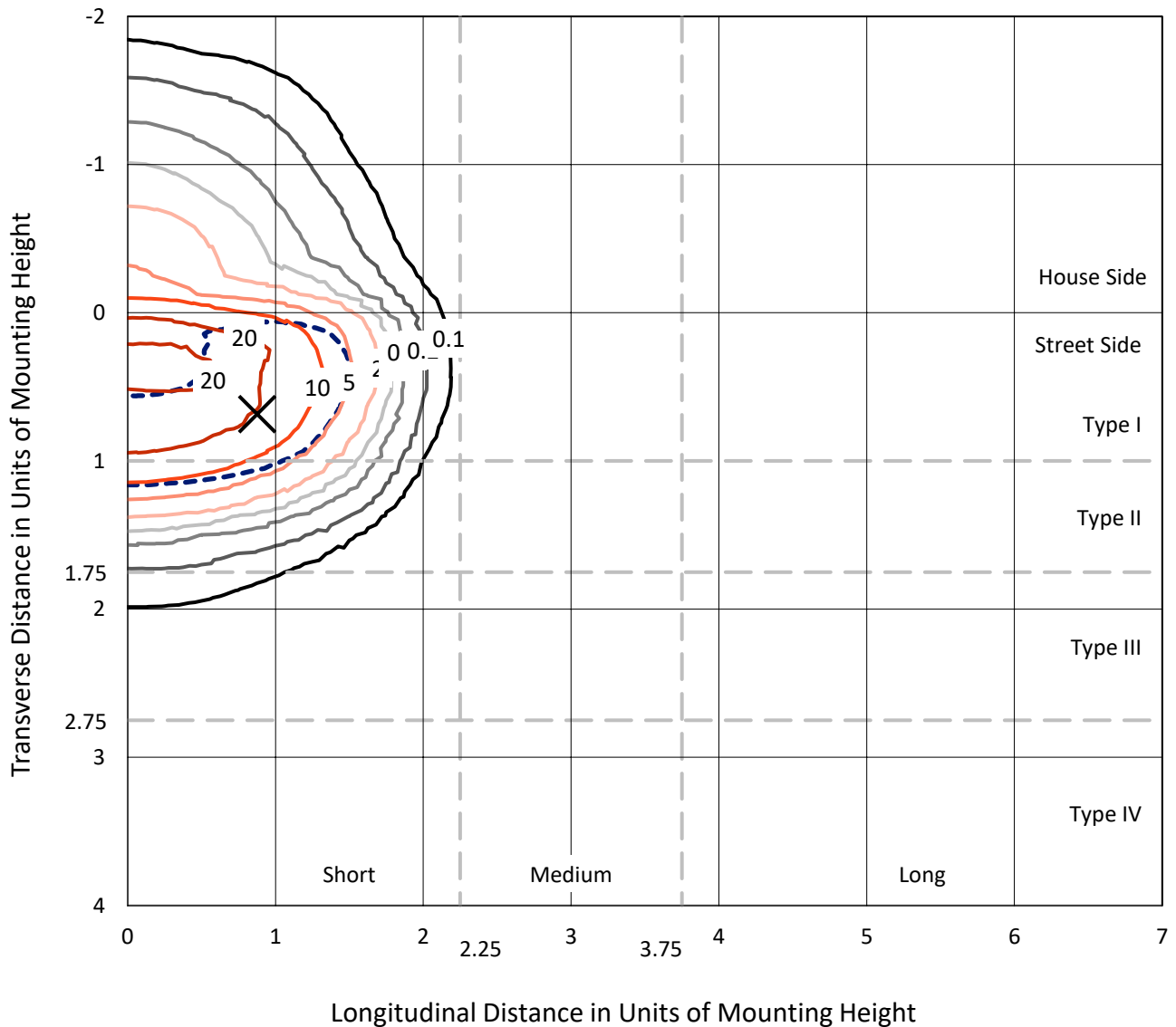
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

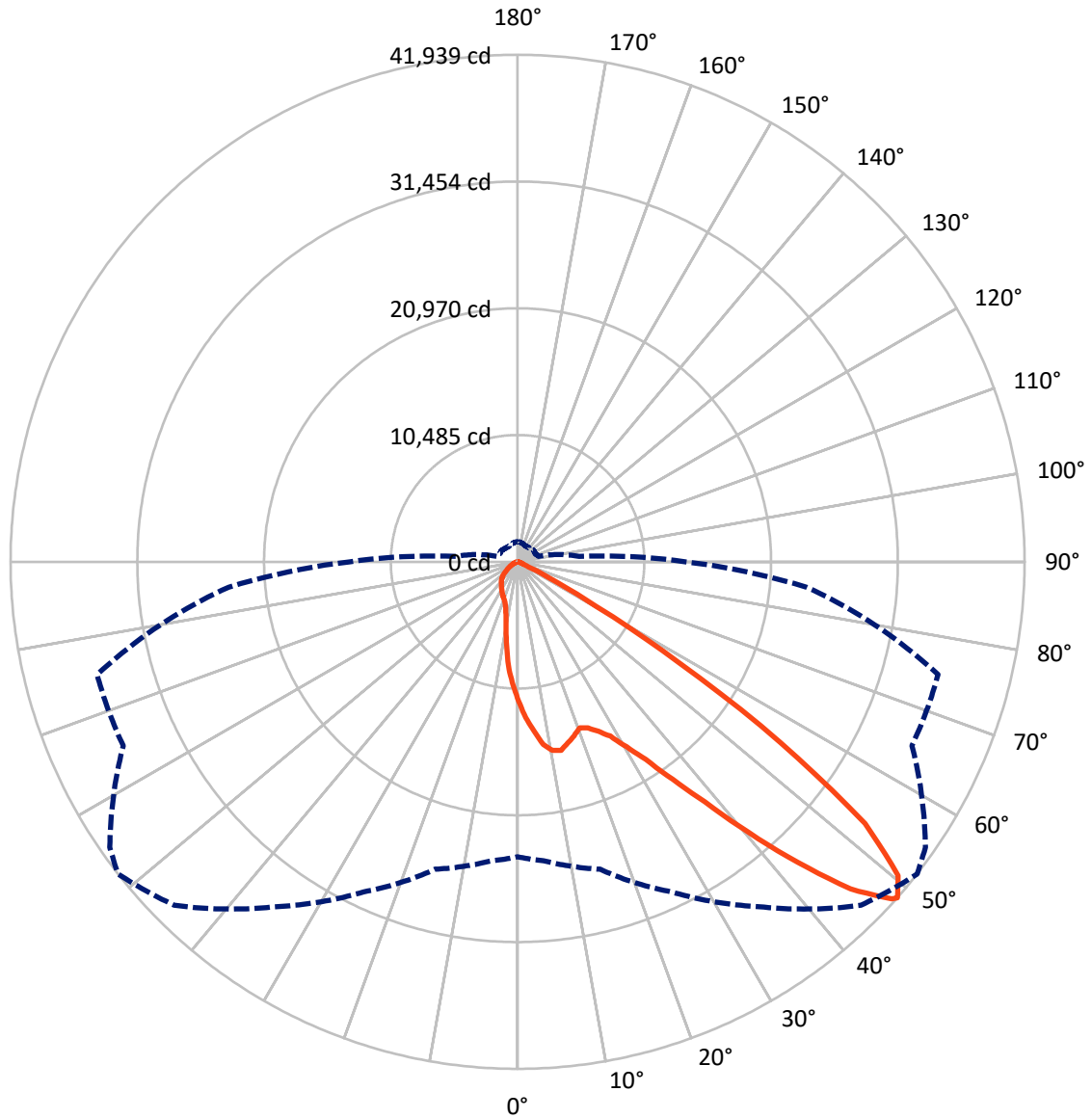
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 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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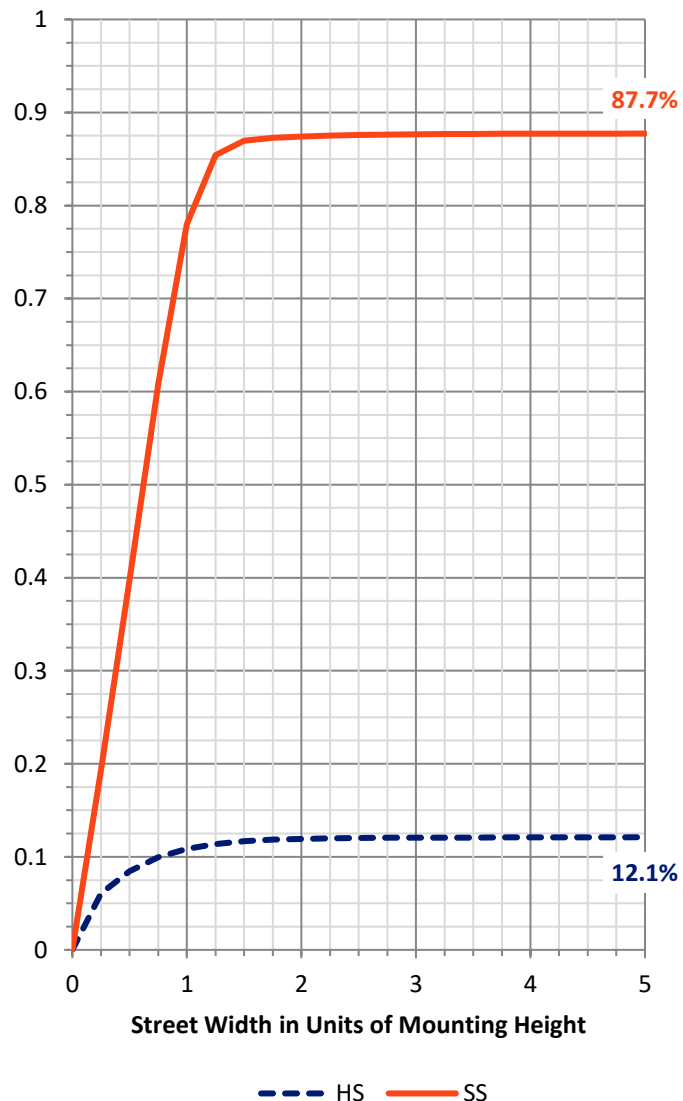
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4868.5	0.0	4868.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	35116.8	0.0	35116.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	39985.4	0.0	39985.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.9	2.6
10°-20°	2762.0	6.9
20°-30°	4715.9	11.8
30°-40°	8684.4	21.7
40°-50°	13486.8	33.7
50°-60°	8116.8	20.3
60°-70°	938.8	2.3
70°-80°	181.7	0.5
80°-90°	42.0	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°	39985.4	100.0
0°-180°	39985.4	100.0

Coefficient of Utilization

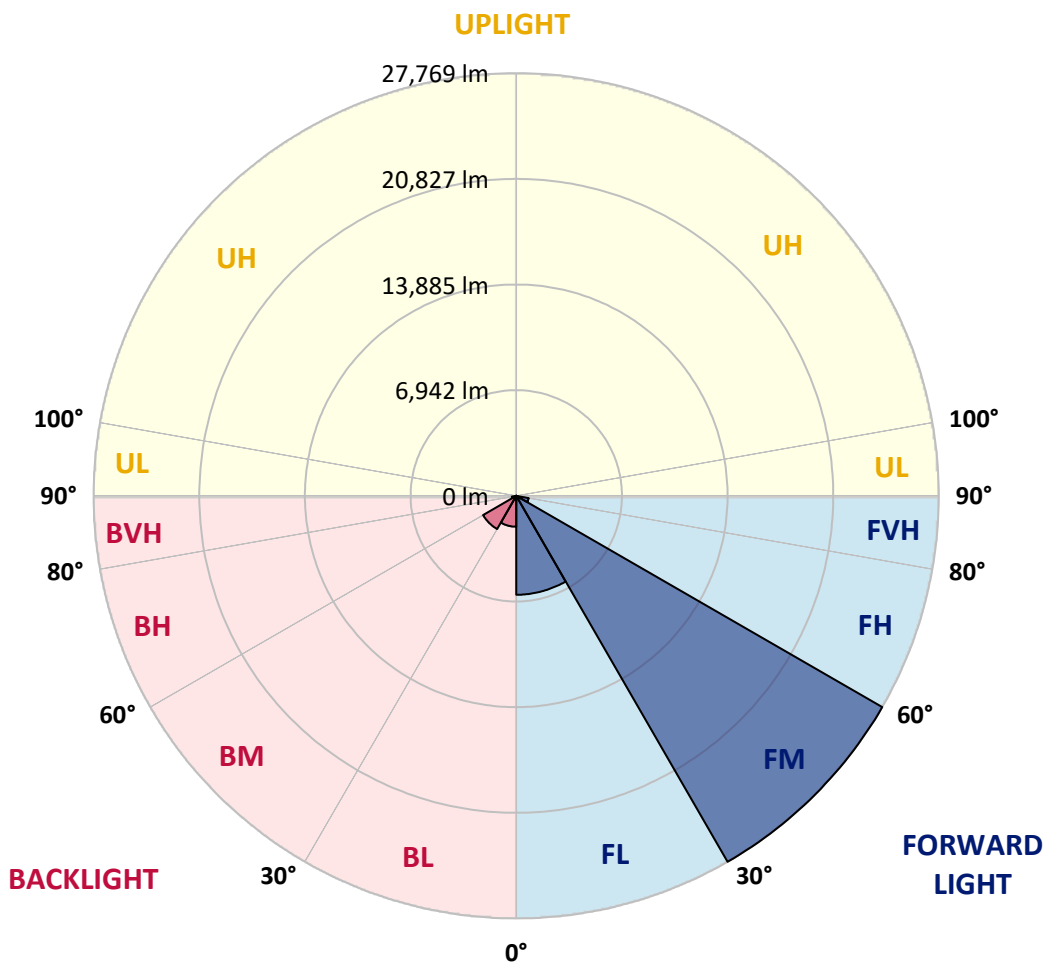


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6501.1	16.3			
FM (30°-60°)	27769.0	69.4			
FH (60°-80°)	826.7	2.1			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	2033.7	5.1	B3/2500		
BM (30°-60°)	2518.9	6.3	B3/5000		
BH (60°-80°)	293.8	0.7	B1/500		G1/500
BVH (80°-90°)	22.0	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°	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1
2.5°	13995.2	13674.7	13703.8	13493.9	13371.6	13173.3	12905.2	12852.8	12561.3	12165.0	11762.8
5°	15254.3	15178.5	15277.6	14974.5	14986.2	14659.7	14030.2	14041.9	13371.6	12724.6	12100.8
7.5°	15335.9	15161.0	15260.1	15528.2	15685.7	15627.4	15271.8	14962.8	14327.5	13377.4	12468.1
10°	13732.9	14065.2	14170.1	14613.1	15242.6	15907.2	15866.3	15883.8	15353.4	14111.8	12782.9
12.5°	12771.2	12549.7	12905.2	13173.3	14123.5	15411.7	16000.4	16128.6	16169.4	14823.0	13097.6
15°	12334.0	12334.0	12392.3	12468.1	13155.8	14345.0	15545.7	15918.8	16799.0	15755.6	13593.1
17.5°	12607.9	12596.3	12677.9	12520.6	12777.0	13692.2	15126.1	15551.6	17504.2	16670.7	13983.6
20°	13441.5	13482.3	13429.8	12975.2	12992.7	13680.5	14659.7	15330.1	17982.3	17463.4	14502.4
22.5°	14601.4	14624.7	14327.5	13832.0	13686.3	14024.4	14927.9	15440.8	18366.9	18413.6	14659.7
25°	15942.1	15848.8	15790.5	15091.1	14648.1	14939.5	15534.1	15831.4	18605.9	19229.6	15108.6
27.5°	17801.5	17615.0	17259.4	16635.7	16309.3	15895.5	16321.0	16810.7	19287.9	20372.1	15598.2
30°	20547.0	20383.7	19690.1	18885.7	18028.9	17620.9	17754.9	18023.1	20517.8	21695.3	16245.2
32.5°	24679.6	24335.8	23333.2	21800.1	20634.4	19509.4	19474.4	19760.1	21619.5	23525.5	17014.6
35°	29232.1	29127.1	27652.4	26072.8	23817.0	22080.0	22109.1	22260.7	23729.6	25927.1	18023.1
37.5°	32257.3	32834.3	31895.9	30199.6	28305.3	25822.1	25192.7	25245.1	26626.6	28771.6	19841.6
40°	34594.7	34105.1	34215.8	33819.5	32525.4	30835.0	29441.9	29168.0	29978.2	31919.2	21648.6
42.5°	33574.7	33598.0	34279.9	35218.4	35539.0	35416.5	33994.3	33475.5	32846.0	34495.5	23368.2
45°	30695.2	31295.5	32181.5	34664.6	36844.6	38890.6	38610.8	37748.1	34827.8	36535.7	24359.1
47.5°	26101.9	26078.7	27530.1	30759.2	35603.1	40394.5	41665.2	41059.0	36232.6	36308.4	24155.0
48°	24405.7	24825.4	26323.5	30123.9	34816.1	40173.0	41939.2	41175.5	35993.6	36005.3	23980.2
50°	18040.5	17964.8	19830.0	24493.1	31097.3	37748.1	40785.0	41379.6	35987.8	34472.3	22756.1
52.5°	9530.3	9856.7	11214.8	15400.1	21986.7	30893.3	35976.1	36902.9	34717.1	31965.8	20995.8
55°	4051.1	3660.5	4704.0	6953.9	12369.0	20640.2	26393.4	28456.8	29354.4	28287.8	18366.9
57.5°	1445.6	1579.7	1818.7	2617.2	5199.4	11296.5	15738.1	17341.1	20337.1	20756.8	12514.7
60°	926.8	944.3	1020.0	1200.8	1952.7	4354.2	7466.8	8743.4	10101.5	10428.0	5840.6
62.5°	717.0	722.8	757.7	786.9	926.8	1690.4	2803.7	3322.5	3450.7	2967.0	1533.0
65°	600.4	606.2	617.9	617.9	658.7	792.7	979.3	1078.3	1049.2	1037.5	868.5
67.5°	460.4	472.1	495.4	495.4	518.8	483.8	542.1	577.1	652.9	792.7	740.2
70°	361.4	367.2	384.7	396.4	396.4	349.8	390.6	425.5	477.9	588.7	582.9
72.5°	279.8	291.4	303.1	303.1	285.6	239.0	279.8	308.9	343.9	408.1	396.4
75°	215.6	215.6	221.5	180.7	139.9	122.4	169.0	204.0	256.5	268.1	221.5
77.5°	58.3	64.1	58.3	52.5	58.3	87.5	110.8	128.3	163.2	163.2	145.7
80°	0.0	5.8	17.5	35.0	58.3	81.6	99.1	110.8	128.3	139.9	134.1
82.5°	0.0	5.8	17.5	35.0	52.5	64.1	87.5	93.3	105.0	122.4	122.4
85°	0.0	5.8	11.7	23.3	35.0	40.8	40.8	35.0	35.0	29.2	23.3
87.5°	0.0	0.0	5.8	11.7	11.7	17.5	17.5	17.5	17.5	17.5	17.5
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°	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1	11547.1
2.5°	11605.4	11424.7	11150.7	10719.4	10305.5	10037.4	9780.9	9495.3	9338.0	9326.3	9238.9
5°	11745.3	11337.3	10684.4	9944.2	9151.4	8469.5	7781.6	7332.8	6930.6	6709.1	6668.3
7.5°	11821.1	11290.6	10235.6	8994.1	7641.7	6528.4	5759.0	5193.6	4972.1	4808.8	4803.0
10°	11978.4	11209.0	9565.3	7735.0	6062.1	4937.1	4406.7	4150.2	4027.8	3981.1	3911.2
12.5°	12095.0	11057.5	8877.4	6441.0	4791.3	4091.9	3858.8	3800.5	3806.3	3829.6	3800.5
15°	12258.2	10923.4	7950.6	5286.9	4022.0	3683.9	3683.9	3695.5	3777.2	3788.8	3783.0
17.5°	12246.6	10661.1	6994.7	4354.2	3555.7	3509.0	3526.5	3637.2	3689.7	3707.2	3666.4
20°	12386.5	10416.3	6009.6	3718.8	3293.4	3363.3	3479.9	3509.0	3573.2	3584.8	3538.2
22.5°	12345.6	9804.3	5094.4	3217.6	3095.1	3229.2	3345.8	3380.7	3363.3	3328.3	3322.5
25°	12269.9	9279.7	4255.1	2885.3	2949.5	3095.1	3205.9	3141.8	3106.8	3112.6	3118.5
27.5°	12135.8	8615.1	3561.5	2652.2	2751.2	2967.0	2961.1	2937.8	2972.8	2943.6	2972.8
30°	12112.5	7950.6	2990.3	2442.3	2605.5	2762.9	2774.5	2815.3	2856.2	2803.7	2856.2
32.5°	12147.5	7222.0	2582.2	2314.1	2518.1	2523.9	2652.2	2693.0	2663.8	2547.2	2558.9
35°	12415.6	6662.5	2284.9	2244.1	2378.2	2384.1	2506.4	2454.0	2325.7	2255.8	2296.6
37.5°	12981.0	6196.2	2145.1	2180.0	2191.6	2267.4	2273.3	2168.4	2180.0	2174.2	2197.5
40°	13703.8	5840.6	2046.0	2121.8	2110.1	2162.5	1952.7	2011.0	2063.5	2080.9	2092.6
42.5°	14199.3	5584.1	1981.8	2028.5	2005.1	1911.9	1795.3	1853.6	1894.4	1958.5	1970.2
45°	14420.8	5380.1	1906.0	1865.3	1865.3	1696.2	1649.6	1661.2	1754.5	1824.5	1812.8
47.5°	14059.3	5181.9	1772.0	1649.6	1690.4	1550.5	1498.1	1498.1	1597.1	1684.5	1667.1
48°	13919.5	5100.3	1777.8	1602.9	1632.1	1527.2	1474.7	1463.1	1573.8	1655.4	1655.4
50°	13225.8	4797.2	1626.2	1474.7	1416.4	1404.8	1369.8	1381.4	1451.4	1527.2	1527.2
52.5°	11873.5	4144.4	1375.6	1264.9	1160.0	1229.9	1247.4	1224.1	1259.1	1329.0	1323.1
55°	9909.2	3182.6	1101.6	1049.2	967.6	1043.3	1078.3	1049.2	1014.2	1066.7	1066.7
57.5°	6347.7	1713.7	880.2	891.8	810.2	886.0	915.2	845.2	781.0	821.9	816.0
60°	2862.0	1025.9	722.8	705.3	652.9	740.2	786.9	705.3	617.9	647.0	676.2
62.5°	1072.5	728.6	547.9	536.2	524.6	606.2	629.5	565.4	477.9	495.4	501.3
65°	786.9	641.2	437.2	396.4	419.7	477.9	466.3	402.2	343.9	343.9	355.6
67.5°	670.4	559.6	355.6	308.9	308.9	314.8	291.4	256.5	239.0	250.6	262.3
70°	524.6	443.0	279.8	239.0	215.6	192.3	169.0	163.2	145.7	163.2	157.4
72.5°	338.1	297.3	215.6	180.7	163.2	134.1	110.8	105.0	87.5	81.6	81.6
75°	180.7	180.7	169.0	145.7	128.3	105.0	87.5	70.0	46.6	35.0	35.0
77.5°	128.3	139.9	151.5	139.9	116.6	87.5	70.0	46.6	23.3	11.7	11.7
80°	122.4	139.9	151.5	134.1	116.6	87.5	64.1	35.0	17.5	5.8	5.8
82.5°	110.8	128.3	139.9	122.4	105.0	75.8	58.3	35.0	17.5	5.8	5.8
85°	23.3	29.2	35.0	35.0	40.8	52.5	40.8	29.2	11.7	5.8	5.8
87.5°	17.5	17.5	17.5	17.5	17.5	17.5	11.7	11.7	5.8	5.8	5.8
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)