

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: P533843

Luminaire Tested: **GALN-SA9B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533843
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-SA9B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 38481 lumens
Efficiency: N/A
Efficacy: 105.7 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

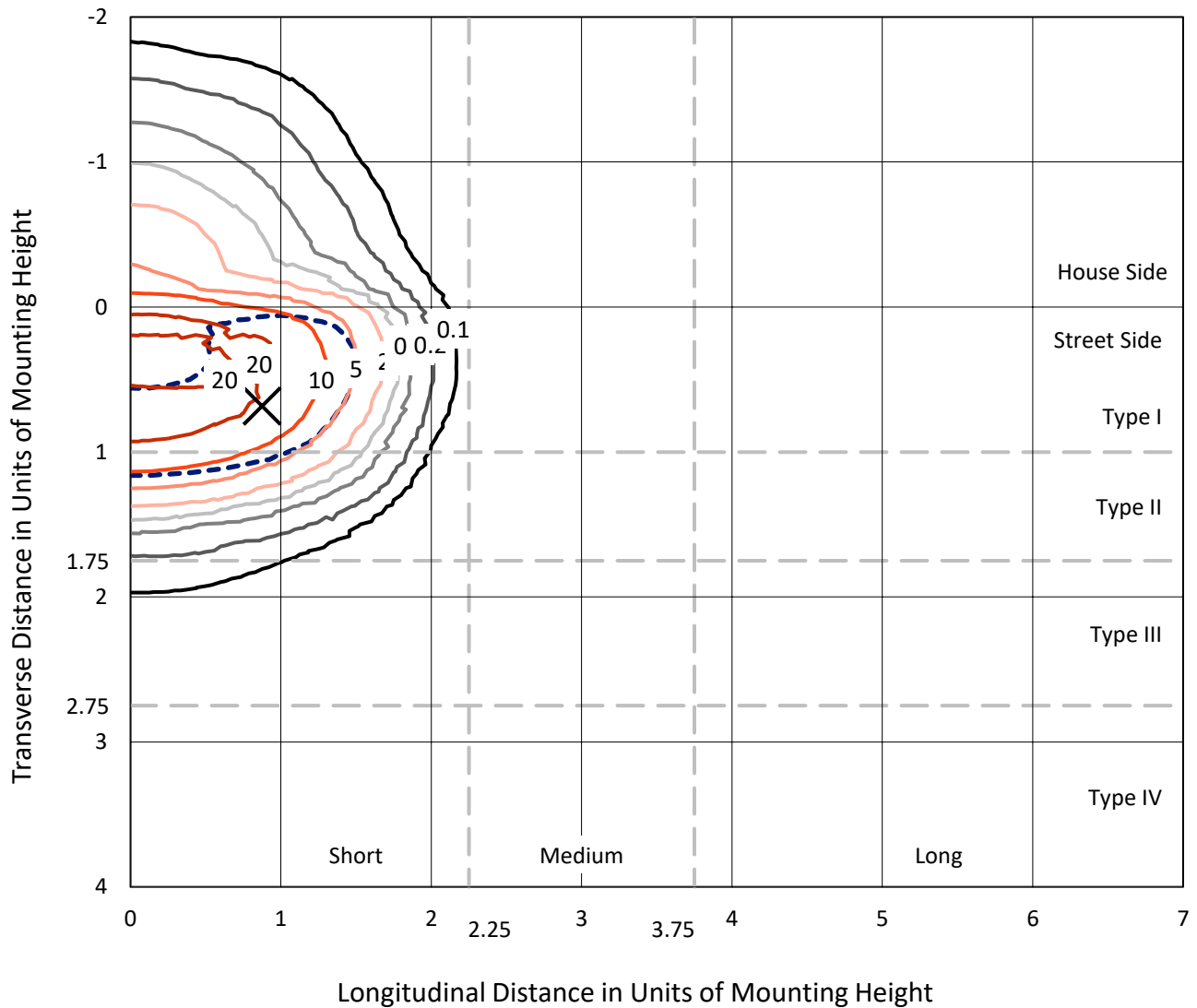
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

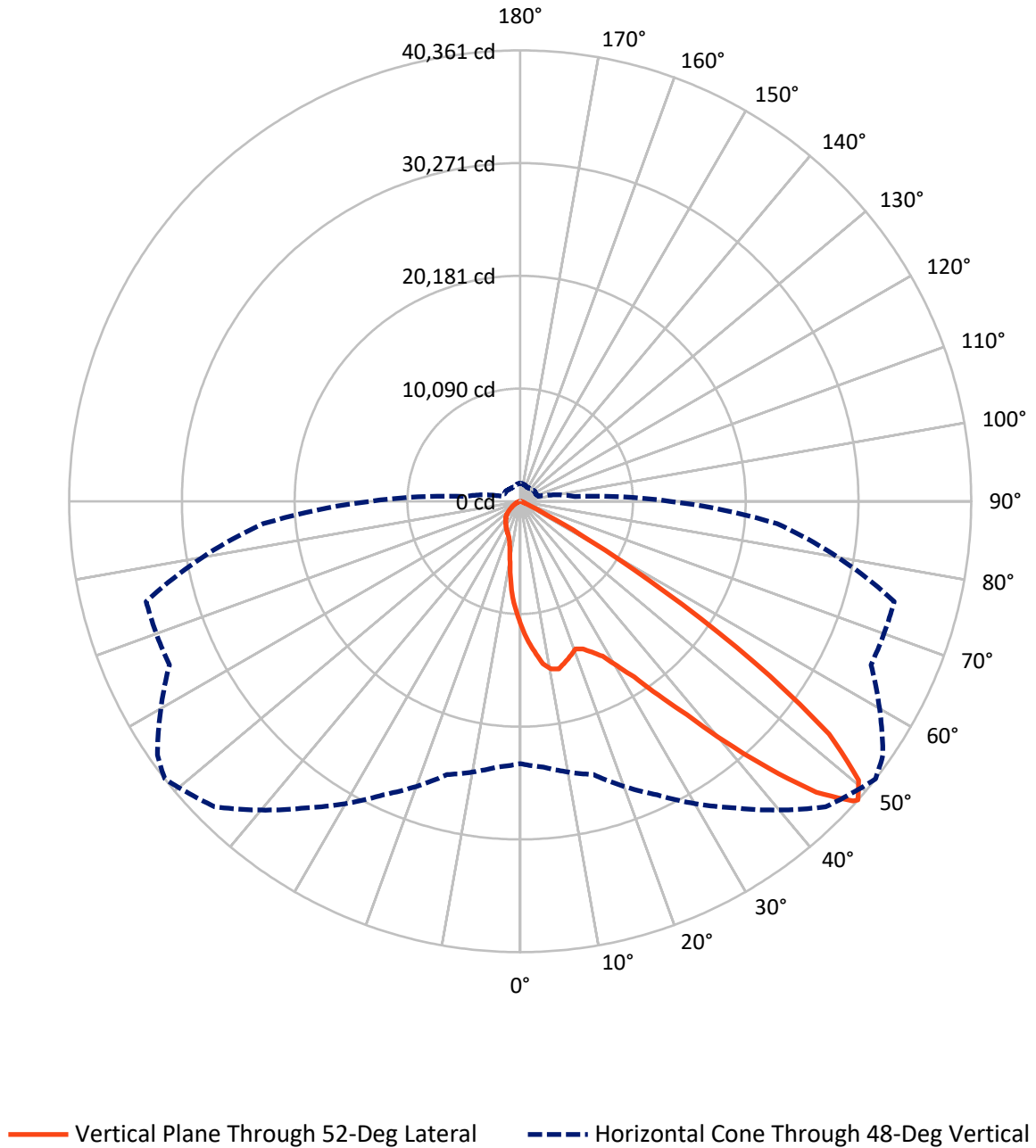
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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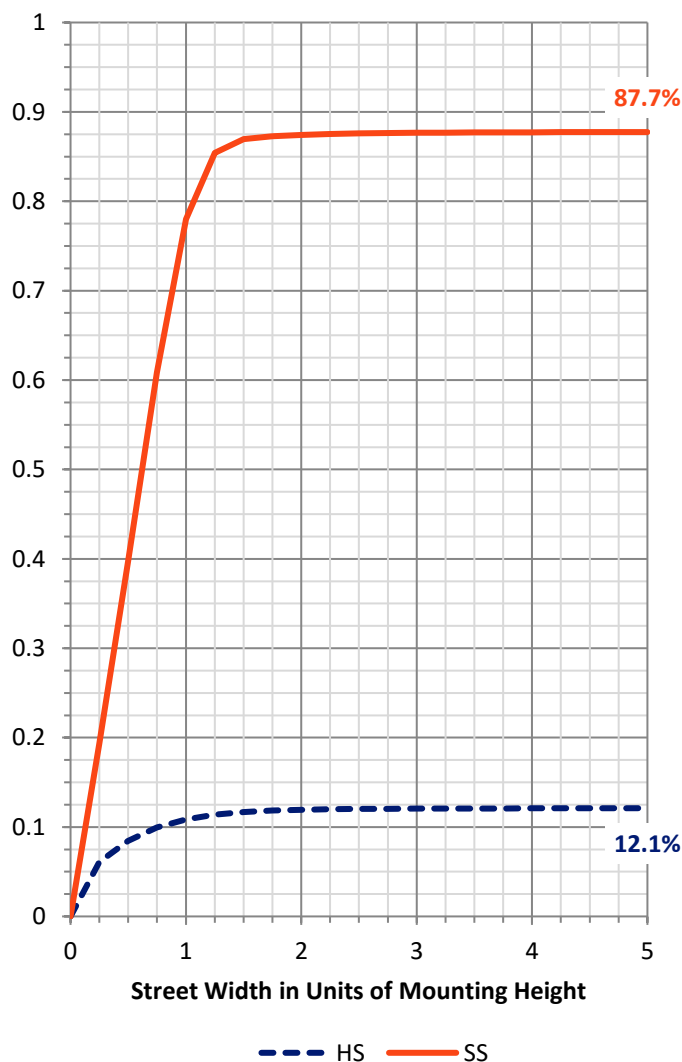
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4685.4	0.0	4685.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	33795.6	0.0	33795.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	38481.0	0.0	38481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.1	2.6
10°-20°	2658.1	6.9
20°-30°	4538.5	11.8
30°-40°	8357.6	21.7
40°-50°	12979.4	33.7
50°-60°	7811.4	20.3
60°-70°	903.5	2.3
70°-80°	174.9	0.5
80°-90°	40.4	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°	38481.0	100.0
0°-180°	38481.0	100.0

Coefficient of Utilization



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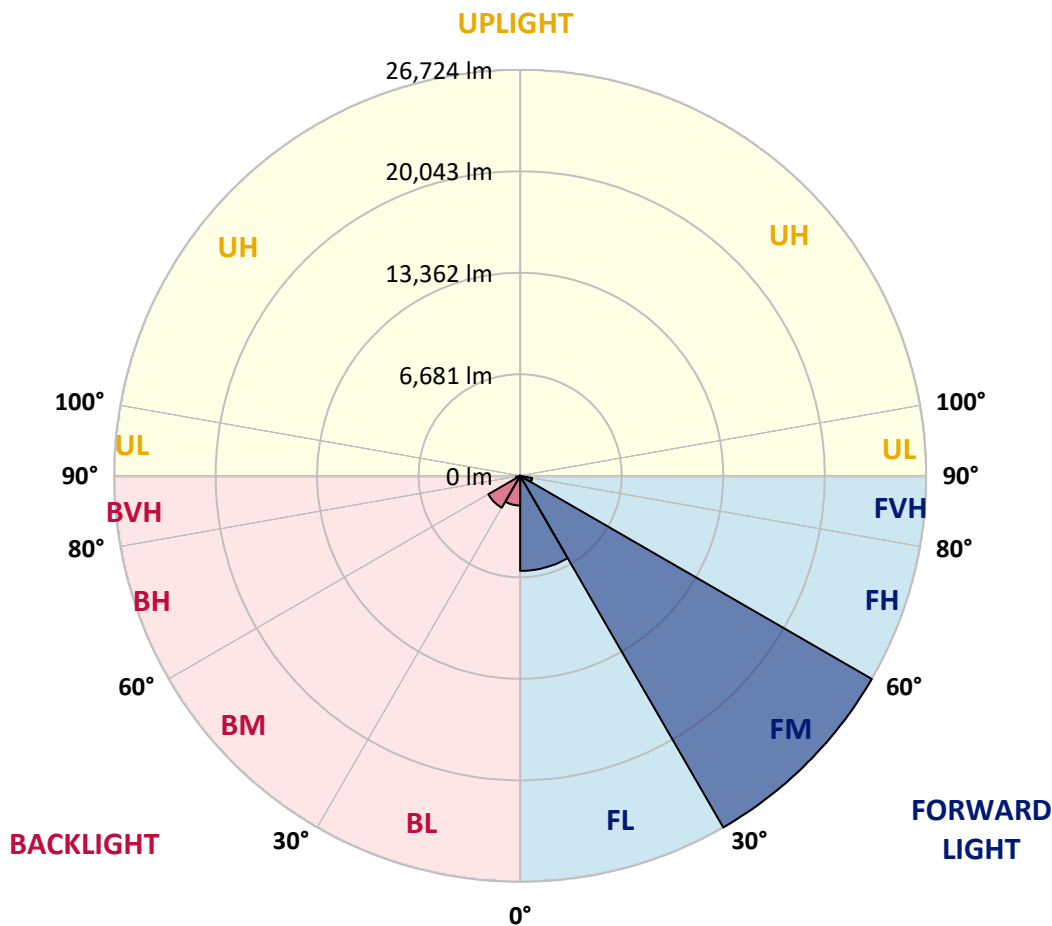
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6256.5	16.3			
FM (30°-60°)	26724.3	69.4			
FH (60°-80°)	795.6	2.1			G1/1800
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1957.2	5.1	B3/2500		
BM (30°-60°)	2424.2	6.3	B2/2500		
BH (60°-80°)	282.8	0.7	B1/500		G1/500
BVH (80°-90°)	21.2	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°	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7
2.5°	13468.7	13160.2	13188.2	12986.3	12868.5	12677.8	12419.7	12369.2	12088.7	11707.3	11320.2
5°	14680.4	14607.5	14702.8	14411.1	14422.4	14108.2	13502.4	13513.6	12868.5	12245.8	11645.6
7.5°	14758.9	14590.6	14686.0	14944.0	15095.5	15039.4	14697.2	14399.9	13788.5	12874.1	11999.0
10°	13216.3	13536.0	13637.0	14063.3	14669.2	15308.7	15269.4	15286.2	14775.8	13580.9	12301.9
12.5°	12290.7	12077.5	12419.7	12677.8	13592.1	14831.9	15398.4	15521.8	15561.1	14265.3	12604.8
15°	11870.0	11870.0	11926.1	11999.0	12660.9	13805.3	14960.9	15319.9	16166.9	15162.8	13081.7
17.5°	12133.6	12122.4	12200.9	12049.5	12296.3	13177.0	14557.0	14966.5	16845.7	16043.5	13457.5
20°	12935.8	12975.1	12924.6	12487.0	12503.9	13165.8	14108.2	14753.3	17305.7	16806.4	13956.8
22.5°	14052.1	14074.6	13788.5	13311.6	13171.4	13496.8	14366.3	14859.9	17675.9	17720.8	14108.2
25°	15342.3	15252.6	15196.5	14523.3	14097.0	14377.5	14949.7	15235.8	17905.9	18506.2	14540.2
27.5°	17131.8	16952.3	16610.1	16009.9	15695.7	15297.5	15707.0	16178.2	18562.3	19605.7	15011.4
30°	19773.9	19616.9	18949.3	18175.2	17350.6	16957.9	17086.9	17345.0	19745.9	20879.0	15634.0
32.5°	23751.2	23420.2	22455.3	20980.0	19858.1	18775.4	18741.8	19016.6	20806.1	22640.5	16374.5
35°	28132.3	28031.3	26612.1	25091.9	22920.9	21249.3	21277.3	21423.2	22836.8	24951.6	17345.0
37.5°	31043.7	31599.0	30695.9	29063.5	27240.4	24850.7	24244.8	24295.3	25624.8	27689.1	19095.2
40°	33293.1	32821.9	32928.5	32547.1	31301.7	29674.9	28334.2	28070.6	28850.3	30718.3	20834.2
42.5°	32311.5	32333.9	32990.2	33893.4	34201.9	34084.1	32715.4	32216.1	31610.3	33197.8	22489.0
45°	29540.3	30118.1	30970.8	33360.5	35458.5	37427.4	37158.2	36328.0	33517.5	35161.2	23442.6
47.5°	25119.9	25097.5	26494.3	29602.0	34263.6	38874.7	40097.6	39514.2	34869.4	34942.4	23246.3
48°	23487.5	23891.4	25333.1	28990.6	33506.3	38661.6	40361.3	39626.4	34639.5	34650.7	23078.0
50°	17361.8	17288.9	19084.0	23571.7	29927.4	36328.0	39250.6	39822.8	34633.8	33175.3	21900.0
52.5°	9171.7	9485.9	10792.9	14820.6	21159.5	29731.0	34622.6	35514.6	33410.9	30763.2	20205.9
55°	3898.7	3522.8	4527.0	6692.3	11903.6	19863.7	25400.4	27386.2	28250.1	27223.5	17675.9
57.5°	1391.2	1520.2	1750.2	2518.7	5003.8	10871.5	15146.0	16688.6	19572.0	19975.9	12043.9
60°	891.9	908.8	981.7	1155.6	1879.2	4190.4	7185.9	8414.4	9721.5	10035.6	5620.8
62.5°	690.0	695.6	729.3	757.3	891.9	1626.8	2698.2	3197.5	3320.9	2855.3	1475.3
65°	577.8	583.4	594.6	594.6	633.9	762.9	942.4	1037.8	1009.7	998.5	835.8
67.5°	443.2	454.4	476.8	476.8	499.3	465.6	521.7	555.4	628.3	762.9	712.4
70°	347.8	353.4	370.2	381.5	381.5	336.6	375.8	409.5	460.0	566.6	561.0
72.5°	269.3	280.5	291.7	291.7	274.9	230.0	269.3	297.3	331.0	392.7	381.5
75°	207.6	207.6	213.2	173.9	134.6	117.8	162.7	196.3	246.8	258.0	213.2
77.5°	56.1	61.7	56.1	50.5	56.1	84.1	106.6	123.4	157.1	157.1	140.2
80°	0.0	5.6	16.8	33.7	56.1	78.5	95.4	106.6	123.4	134.6	129.0
82.5°	0.0	5.6	16.8	33.7	50.5	61.7	84.1	89.8	101.0	117.8	117.8
85°	0.0	5.6	11.2	22.4	33.7	39.3	39.3	33.7	33.7	28.0	22.4
87.5°	0.0	0.0	5.6	11.2	11.2	16.8	16.8	16.8	16.8	16.8	16.8
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°	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7	11112.7
2.5°	11168.8	10994.9	10731.2	10316.1	9917.8	9659.8	9413.0	9138.1	8986.6	8975.4	8891.3
5°	11303.4	10910.7	10282.4	9570.0	8807.1	8150.8	7488.9	7056.9	6669.8	6456.7	6417.4
7.5°	11376.3	10865.9	9850.5	8655.7	7354.2	6282.8	5542.3	4998.2	4785.0	4627.9	4622.3
10°	11527.8	10787.3	9205.4	7444.0	5834.0	4751.4	4240.9	3994.1	3876.3	3831.4	3764.1
12.5°	11640.0	10641.5	8543.5	6198.6	4611.1	3938.0	3713.6	3657.5	3663.1	3685.5	3657.5
15°	11797.0	10512.4	7651.5	5087.9	3870.6	3545.3	3545.3	3556.5	3635.0	3646.3	3640.6
17.5°	11785.8	10260.0	6731.6	4190.4	3421.9	3377.0	3393.8	3500.4	3550.9	3567.7	3528.5
20°	11920.5	10024.4	5783.5	3578.9	3169.4	3236.8	3348.9	3377.0	3438.7	3449.9	3405.0
22.5°	11881.2	9435.4	4902.8	3096.5	2978.7	3107.7	3219.9	3253.6	3236.8	3203.1	3197.5
25°	11808.3	8930.5	4095.0	2776.8	2838.5	2978.7	3085.3	3023.6	2989.9	2995.5	3001.2
27.5°	11679.2	8291.0	3427.5	2552.4	2647.7	2855.3	2849.7	2827.3	2860.9	2832.9	2860.9
30°	11656.8	7651.5	2877.7	2350.4	2507.5	2659.0	2670.2	2709.5	2748.7	2698.2	2748.7
32.5°	11690.5	6950.3	2485.1	2227.0	2423.4	2429.0	2552.4	2591.6	2563.6	2451.4	2462.6
35°	11948.5	6411.8	2199.0	2159.7	2288.7	2294.3	2412.1	2361.7	2238.2	2170.9	2210.2
37.5°	12492.6	5963.0	2064.3	2098.0	2109.2	2182.1	2187.8	2086.8	2098.0	2092.4	2114.8
40°	13188.2	5620.8	1969.0	2041.9	2030.7	2081.2	1879.2	1935.3	1985.8	2002.6	2013.9
42.5°	13665.1	5374.0	1907.3	1952.2	1929.7	1840.0	1727.8	1783.9	1823.1	1884.8	1896.1
45°	13878.2	5177.7	1834.3	1795.1	1795.1	1632.4	1587.5	1598.7	1688.5	1755.8	1744.6
47.5°	13530.4	4987.0	1705.3	1587.5	1626.8	1492.2	1441.7	1441.7	1537.0	1621.2	1604.4
48°	13395.8	4908.4	1710.9	1542.6	1570.7	1469.7	1419.2	1408.0	1514.6	1593.1	1593.1
50°	12728.2	4616.7	1565.1	1419.2	1363.1	1351.9	1318.3	1329.5	1396.8	1469.7	1469.7
52.5°	11426.8	3988.4	1323.9	1217.3	1116.3	1183.6	1200.5	1178.0	1211.7	1279.0	1273.4
55°	9536.4	3062.9	1060.2	1009.7	931.2	1004.1	1037.8	1009.7	976.1	1026.6	1026.6
57.5°	6108.9	1649.2	847.1	858.3	779.7	852.7	880.7	813.4	751.7	791.0	785.3
60°	2754.3	987.3	695.6	678.8	628.3	712.4	757.3	678.8	594.6	622.7	650.7
62.5°	1032.2	701.2	527.3	516.1	504.9	583.4	605.8	544.1	460.0	476.8	482.4
65°	757.3	617.1	420.7	381.5	403.9	460.0	448.8	387.1	331.0	331.0	342.2
67.5°	645.1	538.5	342.2	297.3	297.3	302.9	280.5	246.8	230.0	241.2	252.4
70°	504.9	426.3	269.3	230.0	207.6	185.1	162.7	157.1	140.2	157.1	151.5
72.5°	325.4	286.1	207.6	173.9	157.1	129.0	106.6	101.0	84.1	78.5	78.5
75°	173.9	173.9	162.7	140.2	123.4	101.0	84.1	67.3	44.9	33.7	33.7
77.5°	123.4	134.6	145.9	134.6	112.2	84.1	67.3	44.9	22.4	11.2	11.2
80°	117.8	134.6	145.9	129.0	112.2	84.1	61.7	33.7	16.8	5.6	5.6
82.5°	106.6	123.4	134.6	117.8	101.0	72.9	56.1	33.7	16.8	5.6	5.6
85°	22.4	28.0	33.7	33.7	39.3	50.5	39.3	28.0	11.2	5.6	5.6
87.5°	16.8	16.8	16.8	16.8	16.8	16.8	11.2	11.2	5.6	5.6	5.6
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)