

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: P532867

Luminaire Tested: **GALN-SA8B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24684.1 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

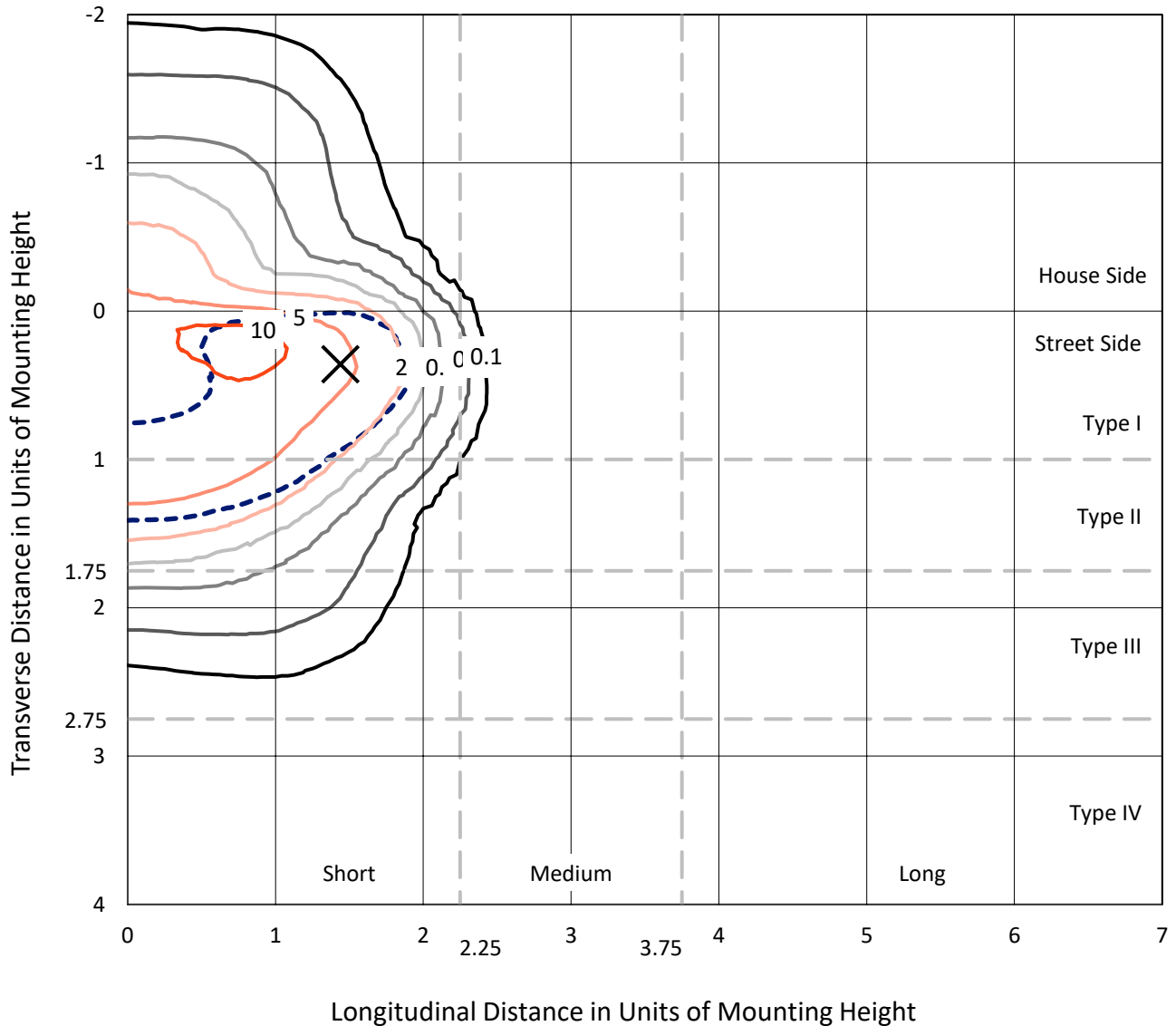
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

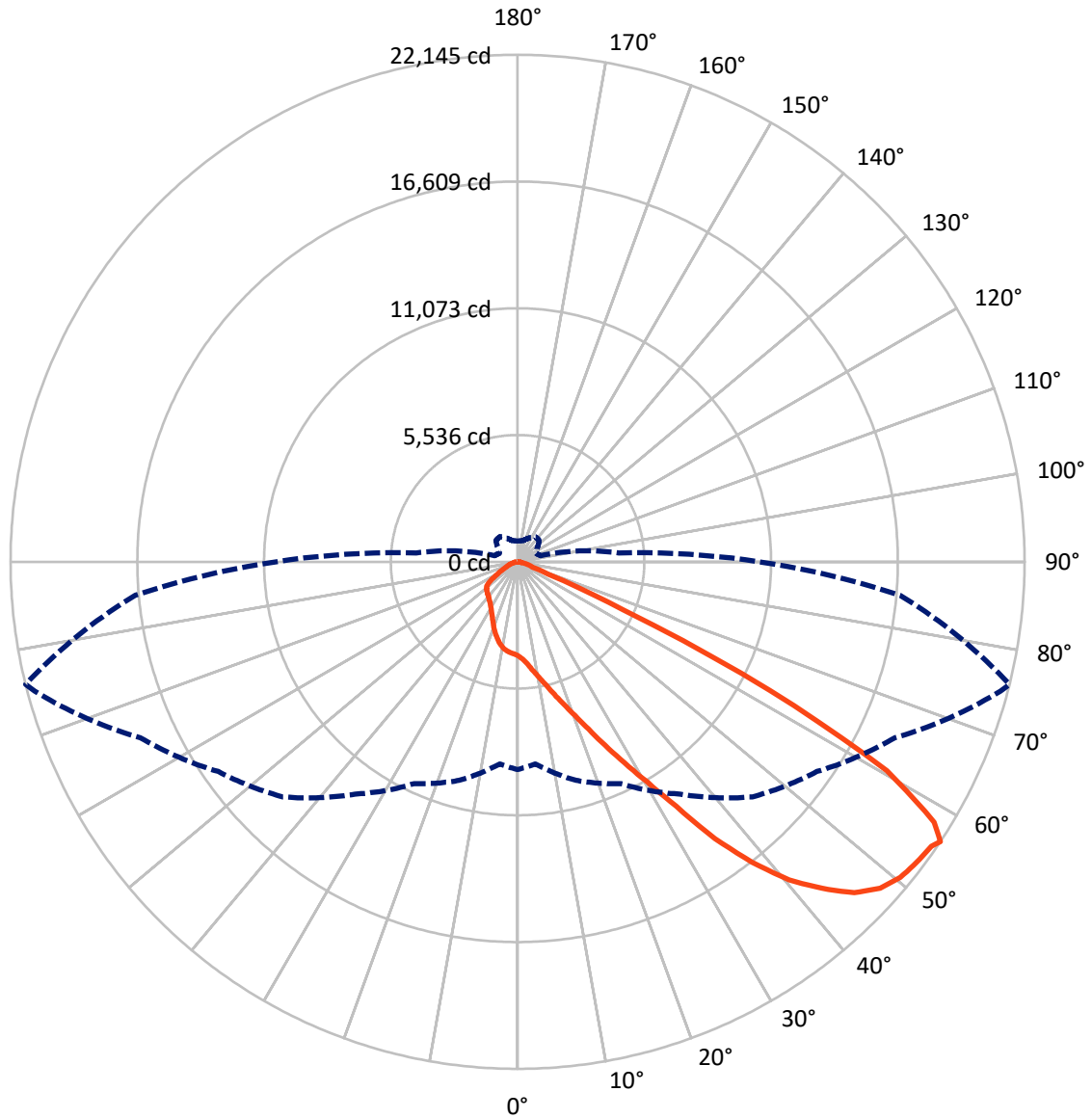
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - Horizontal Cone Through 56-Deg Vertical

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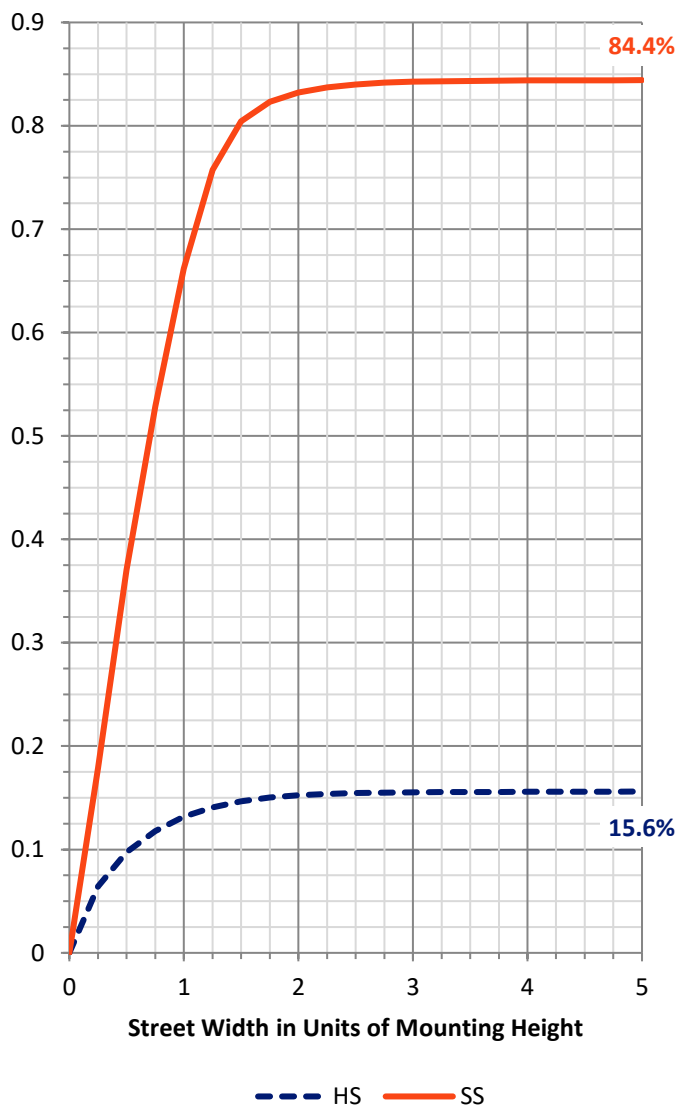
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3877.8	0.0	3877.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20806.3	0.0	20806.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	24684.1	0.0	24684.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	1.7
10°-20°	1329.7	5.4
20°-30°	2411.1	9.8
30°-40°	4158.0	16.8
40°-50°	6754.8	27.4
50°-60°	7119.8	28.8
60°-70°	2175.4	8.8
70°-80°	278.9	1.1
80°-90°	42.4	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°	24684.1	100.0
0°-180°	24684.1	100.0

Coefficient of Utilization

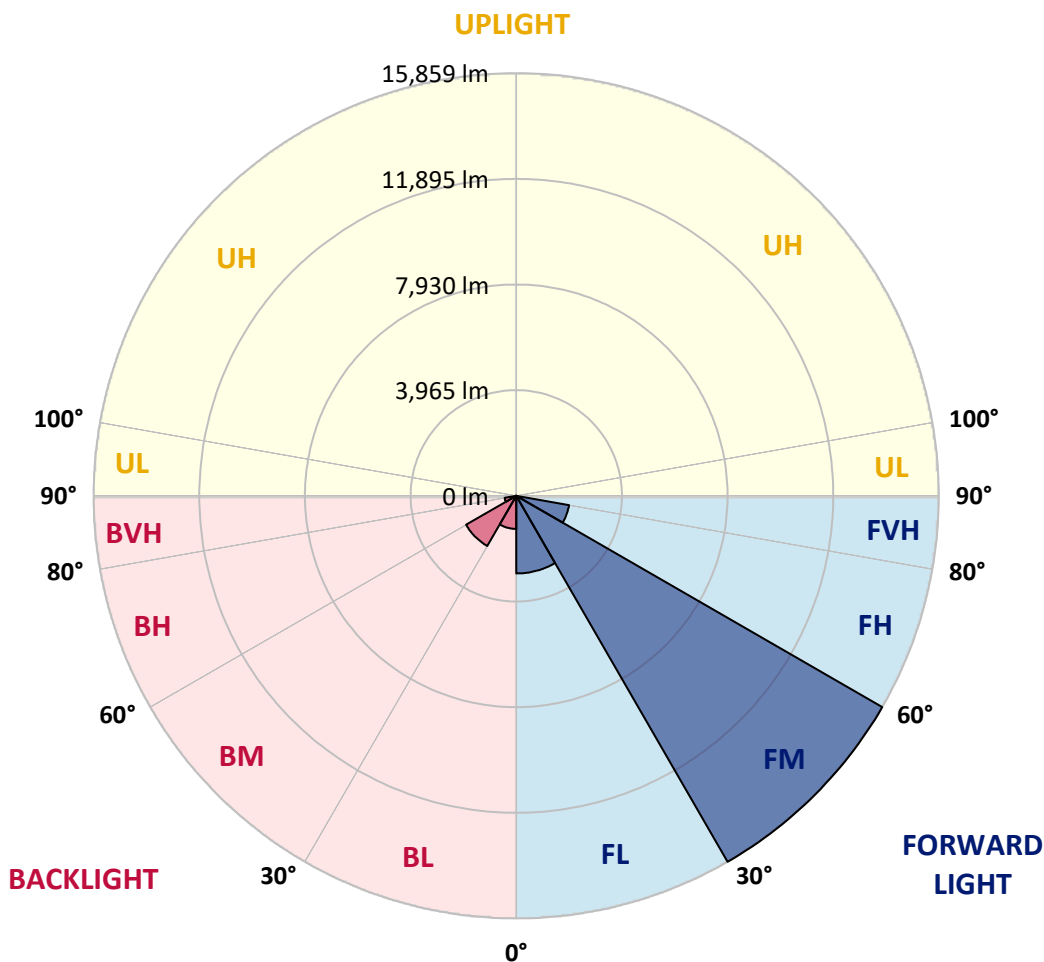


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.2	11.8			
FM (30°-60°)	15859.4	64.2			
FH (60°-80°)	2011.9	8.2			G2/5000
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	1240.5	5.0	B3/2500		
BM (30°-60°)	2173.2	8.8	B2/2500		
BH (60°-80°)	442.4	1.8	B1/500		G1/500
BVH (80°-90°)	21.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7
2.5°	4732.0	4622.8	4627.4	4618.3	4604.6	4554.6	4404.4	4381.7	4281.6	4254.3	4163.3
5°	5300.8	5205.2	5259.8	5177.9	5100.6	5055.1	4809.4	4695.6	4536.4	4477.2	4349.8
7.5°	5655.7	5610.2	5592.0	5596.6	5523.8	5410.0	5300.8	5050.5	4836.7	4791.2	4522.7
10°	5828.6	5801.3	5828.6	5815.0	5846.8	5860.5	5669.4	5519.2	5205.2	5127.9	4709.3
12.5°	5869.6	5924.2	5946.9	6006.1	6083.4	6215.4	6201.7	5997.0	5578.4	5528.3	4995.9
15°	5969.7	6015.2	5992.4	6088.0	6233.6	6456.5	6574.8	6543.0	6092.5	6001.5	5328.1
17.5°	6060.7	5978.8	6056.1	6247.2	6392.8	6734.1	7020.7	7152.7	6652.2	6547.5	5633.0
20°	6183.5	6160.8	6147.1	6242.7	6502.0	6957.0	7525.8	7766.9	7280.1	7170.9	6069.8
22.5°	6556.6	6561.2	6552.1	6411.0	6597.6	7111.7	7967.1	8563.2	8030.8	7939.8	6565.7
25°	7048.0	6988.9	6943.4	6829.6	6806.9	7252.8	8413.0	9536.9	8931.7	8868.0	7102.6
27.5°	7566.7	7566.7	7430.2	7325.6	7180.0	7603.1	8822.5	10483.3	10019.2	9932.7	7571.3
30°	8130.9	8162.8	8144.6	7921.6	7830.6	7985.3	9241.1	11693.6	11265.9	11156.7	8344.8
32.5°	8963.6	8895.3	8972.7	8786.1	8517.7	8654.2	9900.9	12776.5	12885.7	12731.0	9359.4
35°	10064.7	10023.7	9973.7	9668.8	9350.3	9459.5	10833.7	14109.7	14919.6	14842.2	10383.2
37.5°	11052.1	11029.3	10988.4	10779.1	10410.5	10542.4	11893.8	15497.4	16903.4	16648.6	11830.1
40°	12089.5	12212.3	12080.4	11893.8	11557.1	11848.3	13140.5	16321.0	18573.3	18263.9	12935.8
42.5°	13495.4	13399.9	13459.0	13117.8	12935.8	13254.3	14391.8	17144.6	19870.0	19501.5	14109.7
45°	14992.4	14996.9	14837.7	14728.5	14255.3	14601.1	15160.7	17599.6	20902.9	20616.2	14996.9
47.5°	15952.5	15947.9	16120.8	16293.7	15806.8	15465.6	15684.0	18031.8	21435.3	21303.3	15320.0
50°	15802.3	15847.8	16070.8	16716.9	16971.7	16512.1	16175.4	17904.4	21676.4	21662.8	15597.5
52.5°	13745.7	13895.8	14268.9	15201.7	16484.8	17053.6	16689.6	18141.0	21794.7	21817.5	16011.6
55°	10465.1	10547.0	11256.8	12389.8	13809.4	15756.8	16484.8	18327.6	21885.7	21926.7	16512.1
56°	9077.3	8858.9	9882.7	10688.1	12385.2	14514.6	15966.1	18182.0	21831.1	22145.1	16762.4
57.5°	6852.4	6706.8	7534.9	8540.4	10173.9	12421.6	14355.4	17494.9	21462.6	21458.0	16402.9
60°	4167.8	4022.2	4659.2	5250.7	6165.3	7648.6	9700.7	13932.2	18145.6	18527.8	13281.6
62.5°	2479.8	2570.8	3198.7	3558.1	3853.9	4008.6	5018.7	8281.1	12107.7	12380.7	8240.1
65°	1651.7	1683.5	2156.7	2748.2	2880.2	2293.2	2043.0	3353.4	5250.7	5082.4	3398.9
67.5°	1019.2	1092.0	1446.9	2065.7	2288.7	1674.4	969.2	1251.3	1446.9	1446.9	982.8
70°	618.8	655.2	964.6	1406.0	1569.8	1078.4	705.3	705.3	696.2	682.5	587.0
72.5°	295.8	318.5	491.4	723.5	737.1	568.8	546.0	596.1	582.4	577.9	486.9
75°	127.4	136.5	172.9	227.5	259.4	241.2	332.2	427.7	441.4	427.7	350.4
77.5°	41.0	45.5	63.7	81.9	86.5	104.7	141.1	177.5	204.8	191.1	172.9
80°	4.6	9.1	18.2	41.0	63.7	81.9	104.7	118.3	132.0	132.0	122.9
82.5°	4.6	4.6	18.2	36.4	59.2	77.4	100.1	113.8	132.0	136.5	127.4
85°	0.0	4.6	13.7	31.9	50.1	50.1	45.5	45.5	31.9	31.9	31.9
87.5°	0.0	0.0	4.6	4.6	4.6	9.1	9.1	9.1	9.1	9.1	9.1
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°	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7	4108.7
2.5°	4145.1	4136.0	4013.1	3935.8	3894.8	3812.9	3762.9	3726.5	3699.2	3667.3	3671.9
5°	4199.7	4167.8	3963.1	3822.0	3653.7	3562.7	3485.3	3421.6	3380.7	3371.6	3353.4
7.5°	4354.4	4186.0	3876.6	3621.8	3408.0	3317.0	3248.7	3207.8	3226.0	3185.0	3216.9
10°	4472.7	4222.4	3772.0	3403.4	3189.6	3121.3	3084.9	3116.8	3162.3	3144.1	3121.3
12.5°	4618.3	4258.8	3603.6	3194.1	2993.9	2943.9	3007.6	3066.7	3157.7	3194.1	3148.6
15°	4782.1	4299.8	3389.8	2953.0	2825.6	2866.5	2975.7	3080.4	3171.4	3216.9	3244.2
17.5°	4982.3	4286.1	3180.5	2761.9	2666.3	2784.6	2916.6	3012.1	3148.6	3216.9	3198.7
20°	5168.8	4240.6	2948.4	2570.8	2575.3	2684.5	2793.7	2948.4	3021.2	3112.2	3080.4
22.5°	5346.3	4158.7	2707.3	2438.8	2438.8	2607.2	2661.8	2761.9	2825.6	2871.1	2866.5
25°	5596.6	4004.0	2507.1	2311.4	2366.0	2475.2	2520.7	2552.6	2525.3	2561.7	2566.2
27.5°	5774.0	3844.8	2343.3	2197.7	2297.8	2379.7	2366.0	2347.8	2284.1	2234.1	2265.9
30°	5965.1	3658.2	2202.2	2120.3	2174.9	2247.7	2193.1	2138.5	2038.4	1956.5	1961.1
32.5°	6238.1	3571.8	2079.4	2029.3	2102.1	2111.2	2052.1	1970.2	1870.1	1792.7	1788.2
35°	6747.7	3517.2	1974.7	1970.2	1983.8	1988.4	1929.2	1829.1	1788.2	1724.5	1747.2
37.5°	7257.3	3489.9	1901.9	1883.7	1879.2	1883.7	1815.5	1719.9	1797.3	1792.7	1801.8
40°	7908.0	3612.7	1797.3	1774.5	1779.1	1779.1	1692.6	1665.3	1801.8	1815.5	1820.0
42.5°	8567.7	3767.4	1729.0	1656.2	1674.4	1674.4	1628.9	1597.1	1692.6	1601.6	1588.0
45°	9141.0	3994.9	1656.2	1537.9	1583.4	1606.2	1592.5	1537.9	1478.8	1324.1	1324.1
47.5°	9327.6	4195.1	1569.8	1424.2	1460.6	1560.7	1519.7	1406.0	1301.3	1173.9	1164.8
50°	9655.2	4413.5	1501.5	1292.2	1369.6	1492.4	1451.5	1337.7	1219.4	1128.4	1133.0
52.5°	9991.9	4663.8	1374.1	1137.5	1233.1	1437.8	1437.8	1310.4	1128.4	1064.7	1055.6
55°	10496.9	4654.7	1146.6	932.8	1101.1	1355.9	1378.7	1173.9	1010.1	960.1	960.1
56°	10569.8	4445.4	1032.9	873.6	1042.0	1333.2	1337.7	1137.5	964.6	910.0	910.0
57.5°	10023.7	4013.1	905.5	800.8	969.2	1292.2	1296.8	1105.7	928.2	850.9	841.8
60°	7712.3	2716.4	755.3	714.4	878.2	1164.8	1187.6	1005.6	814.5	755.3	750.8
62.5°	4354.4	1506.1	664.3	646.1	755.3	991.9	1060.2	878.2	691.6	659.8	668.9
65°	1988.4	828.1	559.7	523.3	609.7	764.4	855.4	723.5	568.8	532.4	532.4
67.5°	728.0	564.2	477.8	414.1	427.7	496.0	555.1	468.7	377.7	323.1	336.7
70°	518.7	473.2	418.6	359.5	332.2	323.1	318.5	263.9	186.6	145.6	154.7
72.5°	418.6	391.3	350.4	304.9	259.4	218.4	186.6	136.5	86.5	59.2	54.6
75°	300.3	286.7	254.8	218.4	182.0	154.7	127.4	86.5	45.5	22.8	22.8
77.5°	154.7	154.7	150.2	136.5	113.8	91.0	72.8	50.1	27.3	9.1	9.1
80°	118.3	127.4	132.0	118.3	104.7	81.9	59.2	36.4	18.2	4.6	4.6
82.5°	113.8	132.0	141.1	122.9	104.7	77.4	59.2	36.4	18.2	4.6	4.6
85°	27.3	27.3	41.0	45.5	59.2	63.7	50.1	31.9	13.7	4.6	4.6
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	4.6	4.6	4.6	4.6	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)