

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: P456951

Luminaire Tested: **GALN-SA8B-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42256 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

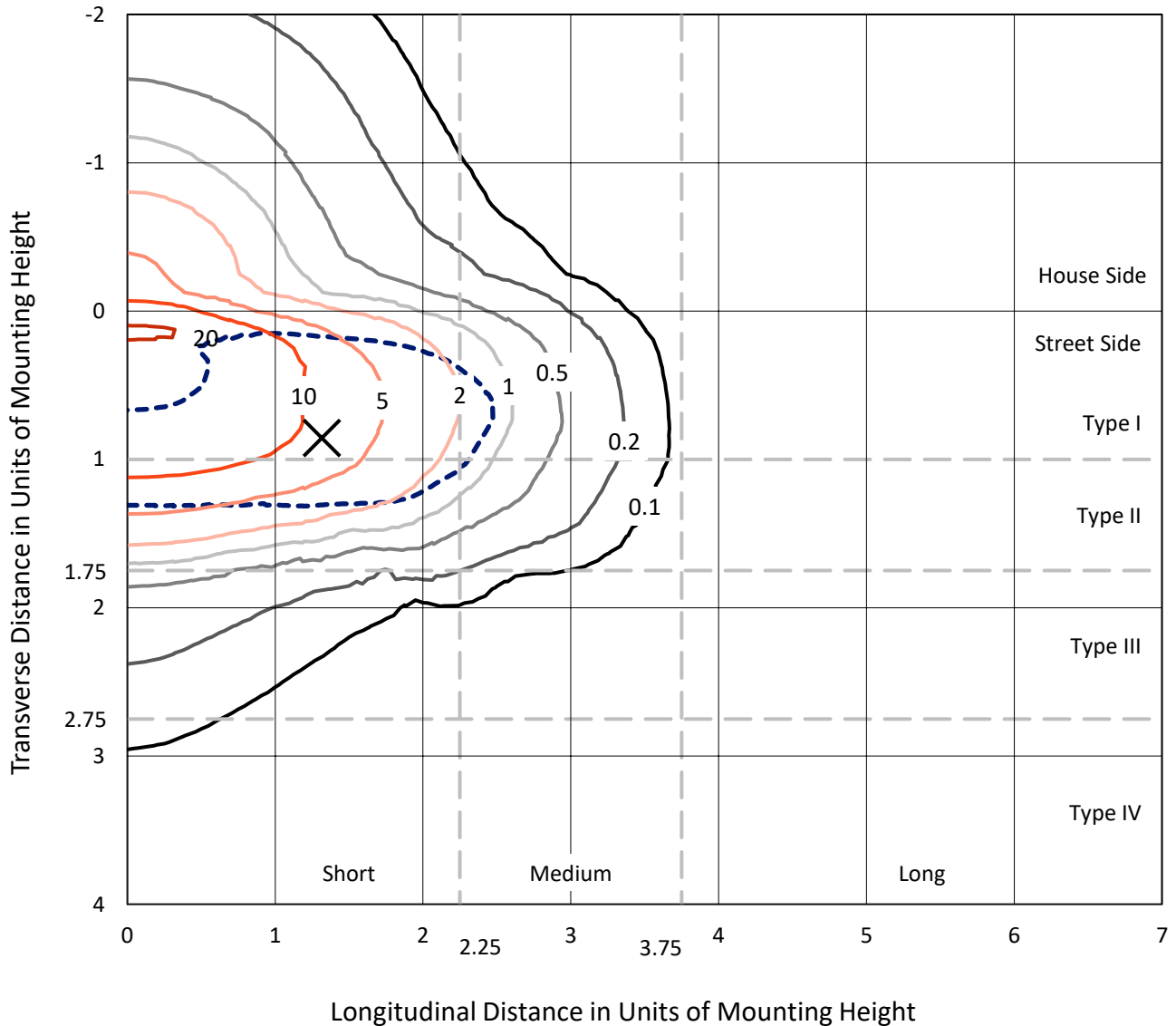
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

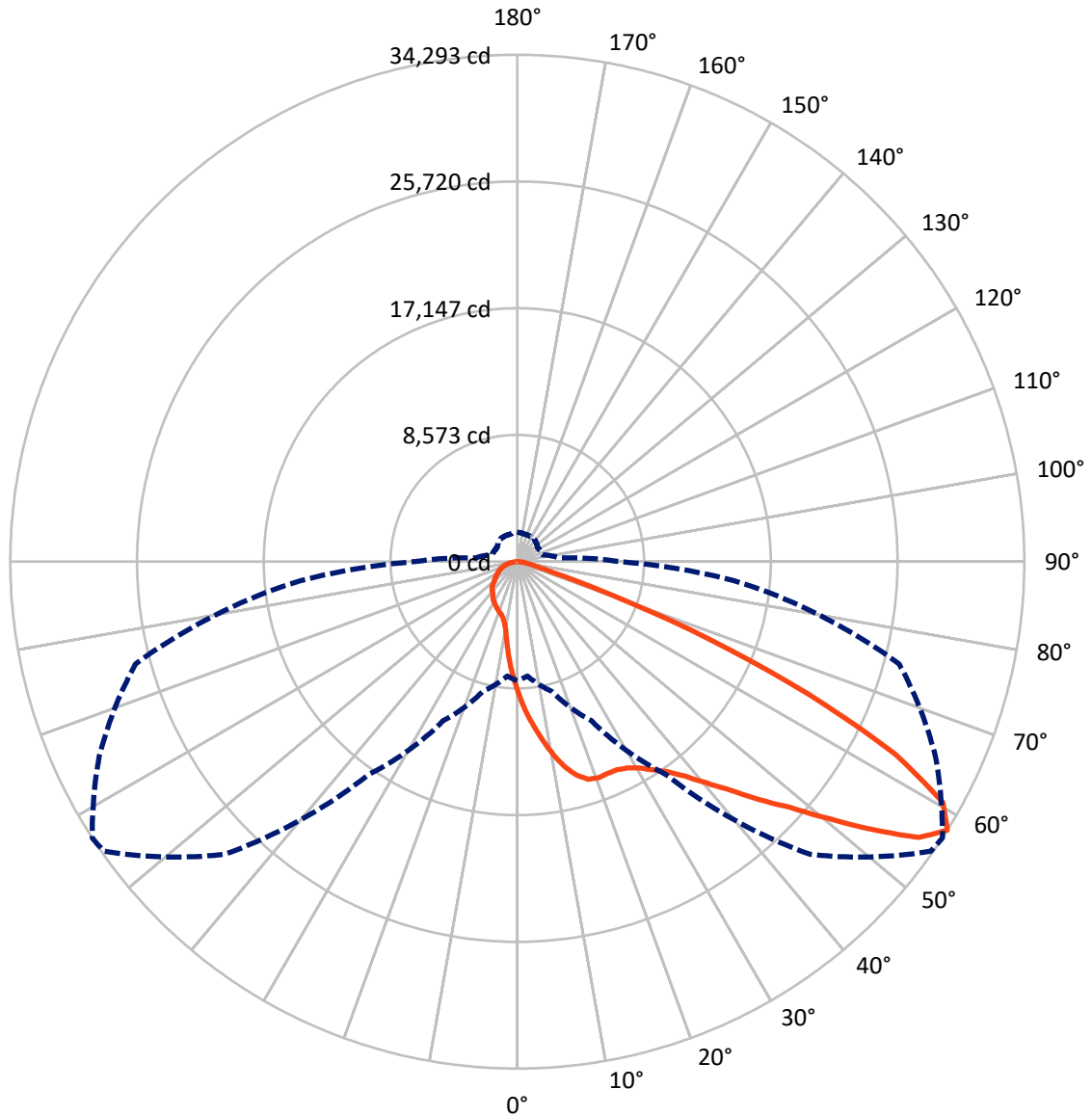
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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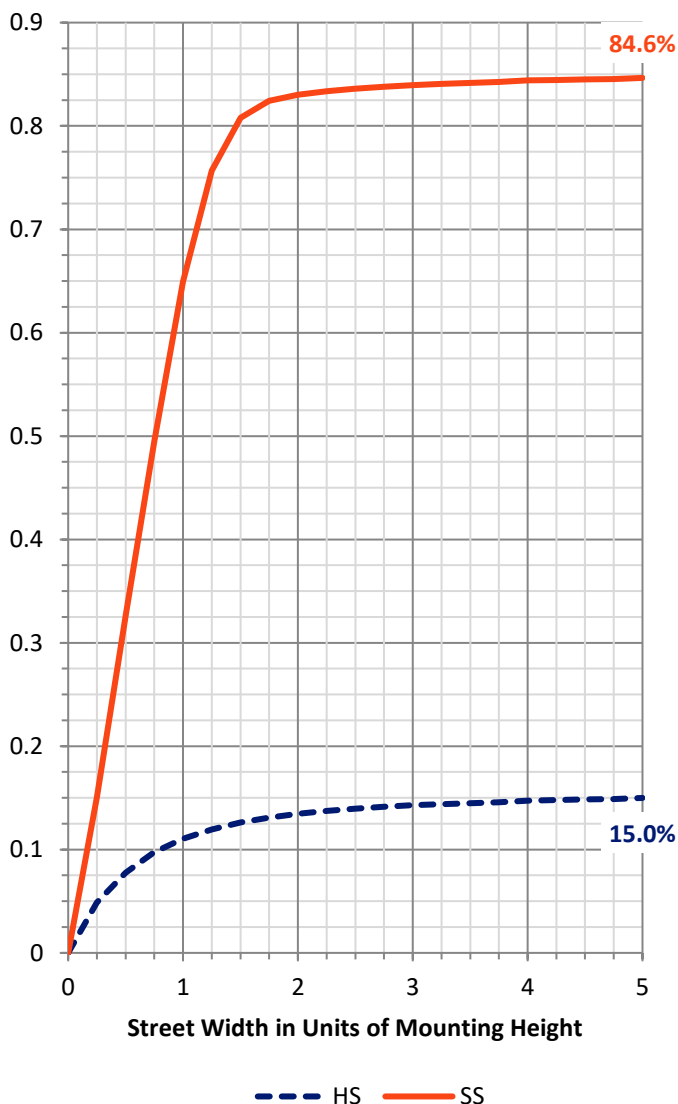
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6425.9	0.0	6425.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	35830.0	0.0	35830.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	42256.0	0.0	42256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.2	2.0
10°-20°	2514.5	6.0
20°-30°	4175.3	9.9
30°-40°	6289.3	14.9
40°-50°	9442.7	22.3
50°-60°	10584.1	25.0
60°-70°	6194.3	14.7
70°-80°	1832.2	4.3
80°-90°	370.3	0.9
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°	42256.0	100.0
0°-180°	42256.0	100.0

Coefficient of Utilization



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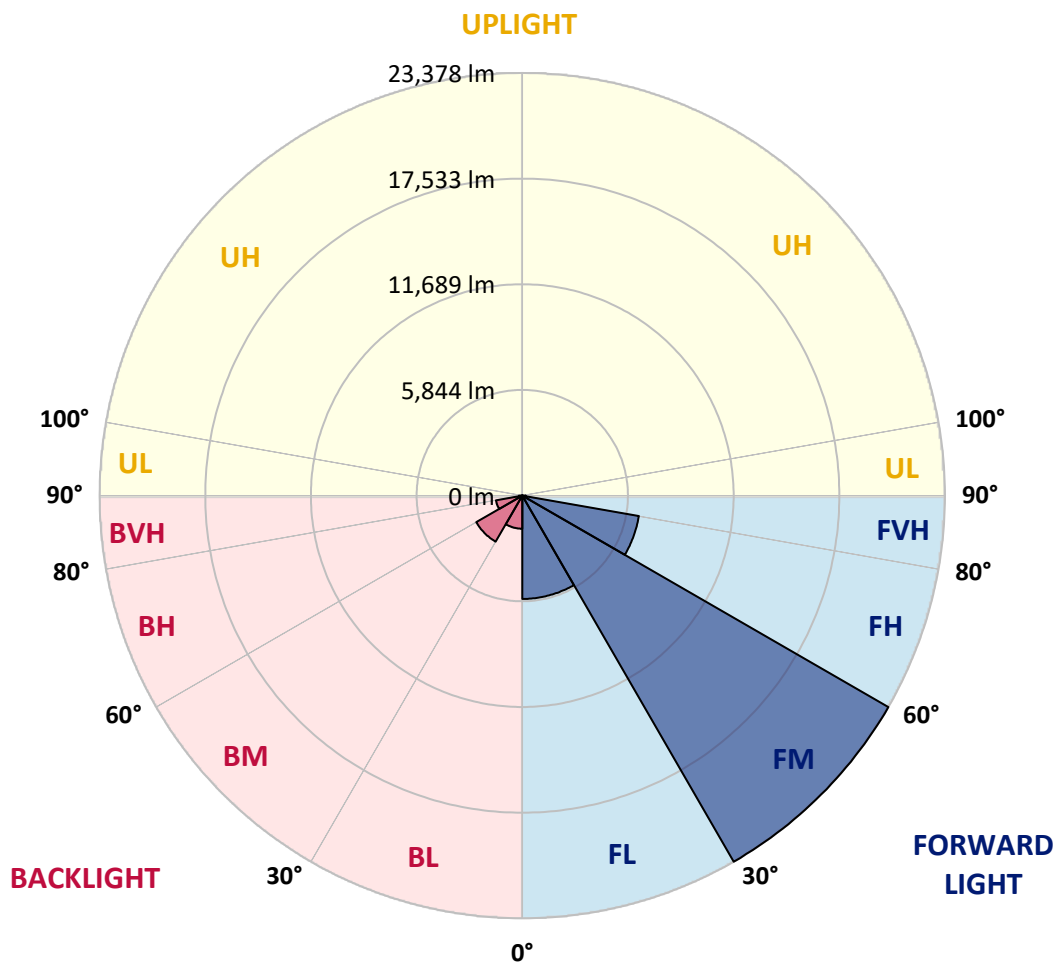
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5712.0	13.5			
FM	(30°-60°)	23377.9	55.3			
FH	(60°-80°)	6548.0	15.5			G3/7500
FVH	(80°-90°)	192.1	0.5			G2/225
BL	(0°-30°)	1831.0	4.3	B3/2500		
BM	(30°-60°)	2938.2	7.0	B3/5000		
BH	(60°-80°)	1478.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	178.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5
2.5°	11031.0	10910.7	10815.8	10732.6	10623.9	10330.1	10036.3	10031.7	9798.1	9437.3	9067.2
5°	12828.2	12666.3	12687.1	12428.0	12169.0	11743.4	11121.2	11088.8	10591.5	9916.1	9229.1
7.5°	13998.6	14000.9	13936.2	13788.1	13508.2	13024.8	12319.3	12159.7	11468.1	10443.4	9414.1
10°	13938.5	14000.9	14109.6	14236.8	14322.4	14084.2	13441.2	13246.9	12347.1	11081.8	9620.0
12.5°	13138.1	13235.3	13390.3	13709.5	14225.3	14618.5	14398.8	14241.5	13364.8	11717.9	9846.7
15°	12638.5	12696.4	12781.9	12997.1	13552.2	14493.6	15062.6	14979.3	14324.7	12437.3	10101.1
17.5°	12485.9	12543.7	12571.4	12703.3	13098.8	14063.4	15324.0	15472.0	15175.9	13098.8	10357.9
20°	12638.5	12666.3	12666.3	12744.9	13054.9	13811.2	15312.4	15610.8	15874.5	13892.2	10598.4
22.5°	13038.7	13050.3	13034.1	13061.8	13293.1	13880.6	15203.7	15573.8	16438.9	14565.3	10785.8
25°	13688.7	13707.2	13600.8	13536.0	13704.8	14186.0	15263.8	15603.9	16880.7	15208.3	10910.7
27.5°	14426.5	14449.6	14320.1	14169.8	14248.4	14563.0	15499.8	15805.1	17211.4	15842.1	10989.3
30°	15330.9	15340.2	15122.7	14942.3	14891.4	15125.1	15902.2	16186.8	17623.2	16589.2	11107.3
32.5°	16256.1	16325.5	16045.7	15791.2	15705.6	15777.3	16496.7	16772.0	18113.5	17391.9	11297.0
35°	17514.4	17526.0	17190.6	16880.7	16598.5	16691.0	17257.7	17456.6	18791.3	18319.4	11565.3
37.5°	19085.0	19191.4	18728.8	18150.5	17803.6	17669.4	18178.3	18395.7	19741.9	19457.4	11970.1
40°	20829.1	20868.4	20472.8	20112.0	19478.2	19089.6	19441.2	19677.2	20914.6	20815.2	12439.6
42.5°	21925.4	22011.0	22041.1	22004.1	21527.6	20875.3	21009.5	21120.5	22302.5	22089.7	12920.7
45°	22295.5	22422.7	22853.0	23764.3	23815.2	23172.2	22859.9	22966.3	23815.2	23375.7	13381.0
47.5°	21682.6	21900.0	22693.4	24562.3	25961.7	26010.3	25068.9	24835.3	25193.8	24442.0	13714.1
50°	20098.1	20144.4	21358.7	24065.0	26967.9	28723.5	27749.7	27314.9	26503.0	25230.8	13943.1
52.5°	17646.3	17699.5	18717.2	21754.3	26348.0	30620.2	30886.2	30109.0	27833.0	25843.8	14093.4
55°	13098.8	13406.5	14526.0	17461.2	23410.4	30442.1	33379.7	32937.9	29440.6	26329.5	14329.4
57.5°	8054.1	7771.9	9099.6	11879.8	17607.0	27994.9	34149.9	34293.3	31210.0	26736.6	14724.9
60°	3705.5	3761.0	4309.2	6127.3	10732.6	21900.0	32165.3	33072.0	32188.5	26722.7	14824.4
62.5°	2553.6	2502.7	2363.9	2690.1	4894.4	13850.6	27169.1	28705.0	30227.0	25892.3	14428.8
65°	2283.0	2232.1	1963.8	1873.6	2248.3	6037.1	19751.2	21689.5	25450.5	23796.7	13443.5
67.5°	2132.6	2063.2	1785.7	1609.9	1605.3	2403.3	11646.2	13980.1	18876.8	20118.9	11648.5
70°	1975.3	1919.8	1644.6	1450.3	1367.0	1510.4	5118.8	6700.9	12256.9	14498.2	9074.1
72.5°	1818.1	1753.3	1505.8	1297.6	1188.9	1131.1	1961.5	2551.3	6925.3	8692.5	5562.9
75°	1589.1	1556.7	1346.2	1175.0	1057.1	913.7	1244.4	1420.2	3312.3	3992.3	2791.9
77.5°	1390.1	1355.4	1195.8	1027.0	941.4	742.5	883.6	964.5	1397.1	1619.1	1260.6
80°	1017.7	1052.4	1008.5	906.7	839.6	582.9	594.5	661.5	830.4	918.3	770.2
82.5°	645.3	710.1	777.2	698.5	636.1	460.3	411.7	437.2	566.7	601.4	342.3
85°	270.6	275.3	451.0	425.6	363.1	272.9	247.5	261.4	303.0	316.9	159.6
87.5°	104.1	101.8	159.6	148.0	113.3	78.6	78.6	87.9	120.3	111.0	50.9
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°	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5
2.5°	8907.6	8743.3	8417.2	8012.4	7716.3	7383.3	7089.5	6879.0	6800.4	6763.4	6694.0
5°	8900.6	8576.8	7901.4	7193.6	6624.6	6041.7	5549.0	5229.8	5202.1	4989.3	4968.4
7.5°	8902.9	8408.0	7332.4	6291.5	5424.1	4827.3	4420.2	4313.8	4186.6	4154.2	4170.4
10°	8909.9	8192.8	6721.7	5398.7	4559.0	4168.1	4015.5	3973.8	3978.5	3992.3	3994.6
12.5°	8919.1	7984.7	6088.0	4720.9	4073.3	3911.4	3895.2	3932.2	3971.5	4001.6	4008.5
15°	8930.7	7746.4	5470.4	4175.1	3830.4	3816.5	3869.7	3932.2	3987.7	4031.7	4038.6
17.5°	8916.8	7468.9	4952.2	3839.7	3696.3	3763.3	3851.2	3929.9	3980.8	4022.4	4027.0
20°	8884.4	7158.9	4452.6	3603.7	3613.0	3721.7	3816.5	3890.6	3946.1	3966.9	3983.1
22.5°	8759.5	6788.8	4017.8	3421.0	3513.5	3663.9	3777.2	3821.2	3758.7	3714.8	3726.3
25°	8546.7	6307.7	3613.0	3273.0	3423.3	3582.9	3698.6	3592.2	3541.3	3522.8	3532.0
27.5°	8280.7	5780.3	3307.7	3118.0	3307.7	3492.7	3460.3	3441.8	3418.7	3388.6	3395.6
30°	7993.9	5264.5	3048.6	2997.7	3182.8	3289.2	3303.0	3333.1	3307.7	3261.4	3279.9
32.5°	7727.9	4778.8	2852.0	2895.9	3094.9	3078.7	3182.8	3217.5	3099.5	2944.5	2951.5
35°	7501.2	4327.7	2704.0	2796.5	2944.5	2951.5	3055.5	2935.3	2808.0	2734.0	2738.7
37.5°	7330.1	3976.1	2606.8	2710.9	2752.5	2840.4	2784.9	2722.5	2706.3	2655.4	2657.7
40°	7228.3	3668.5	2544.4	2643.8	2636.9	2697.0	2518.9	2581.4	2604.5	2588.3	2590.6
42.5°	7126.5	3451.1	2479.6	2551.3	2549.0	2431.0	2391.7	2444.9	2505.0	2512.0	2507.4
45°	7045.6	3282.2	2412.5	2410.2	2456.5	2271.4	2259.9	2292.2	2377.8	2419.5	2417.1
47.5°	6955.4	3141.1	2310.7	2246.0	2259.9	2172.0	2153.5	2167.3	2271.4	2338.5	2357.0
50°	6842.0	3000.0	2183.5	2095.6	2037.8	2079.4	2084.1	2086.4	2190.5	2266.8	2283.0
52.5°	6751.8	2893.6	2037.8	1973.0	1903.6	1996.2	2030.9	2035.5	2097.9	2160.4	2172.0
55°	6805.0	2833.5	1894.4	1848.1	1785.7	1910.6	1977.7	1986.9	2000.8	2047.1	2054.0
57.5°	6964.6	2847.4	1778.7	1718.6	1672.3	1808.8	1922.1	1929.1	1919.8	1975.3	1984.6
60°	7013.2	2840.4	1693.2	1575.2	1547.4	1700.1	1841.2	1855.1	1852.8	1933.7	1949.9
62.5°	6809.6	2752.5	1607.6	1454.9	1436.4	1589.1	1727.9	1783.4	1794.9	1910.6	1931.4
65°	6330.8	2572.1	1494.2	1327.7	1327.7	1471.1	1619.1	1695.5	1727.9	1882.8	1906.0
67.5°	5699.4	2359.3	1378.6	1219.0	1214.4	1357.8	1503.5	1582.1	1633.0	1843.5	1857.4
70°	4730.2	2072.5	1235.2	1101.0	1101.0	1230.5	1362.4	1457.2	1531.2	1769.5	1769.5
72.5°	3240.6	1723.2	1061.7	966.9	969.2	1089.4	1223.6	1330.0	1417.9	1621.5	1626.1
75°	2049.4	1346.2	872.0	823.4	832.7	946.0	1084.8	1195.8	1371.6	1602.9	1609.9
77.5°	1089.4	946.0	693.9	682.4	693.9	798.0	953.0	1105.6	1376.3	1390.1	1367.0
80°	705.5	670.8	548.2	525.1	529.7	643.0	848.9	1050.1	1105.6	1119.5	1068.6
82.5°	384.0	425.6	388.6	365.5	365.5	501.9	724.0	835.0	793.4	659.2	629.2
85°	164.2	198.9	201.2	175.8	168.9	309.9	485.7	455.7	423.3	404.8	400.2
87.5°	46.3	64.8	64.8	48.6	37.0	85.6	97.1	27.8	0.0	2.3	4.6
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)