

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: P459155

Luminaire Tested: **GALN-SA6C-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459155
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-SA6C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39216 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

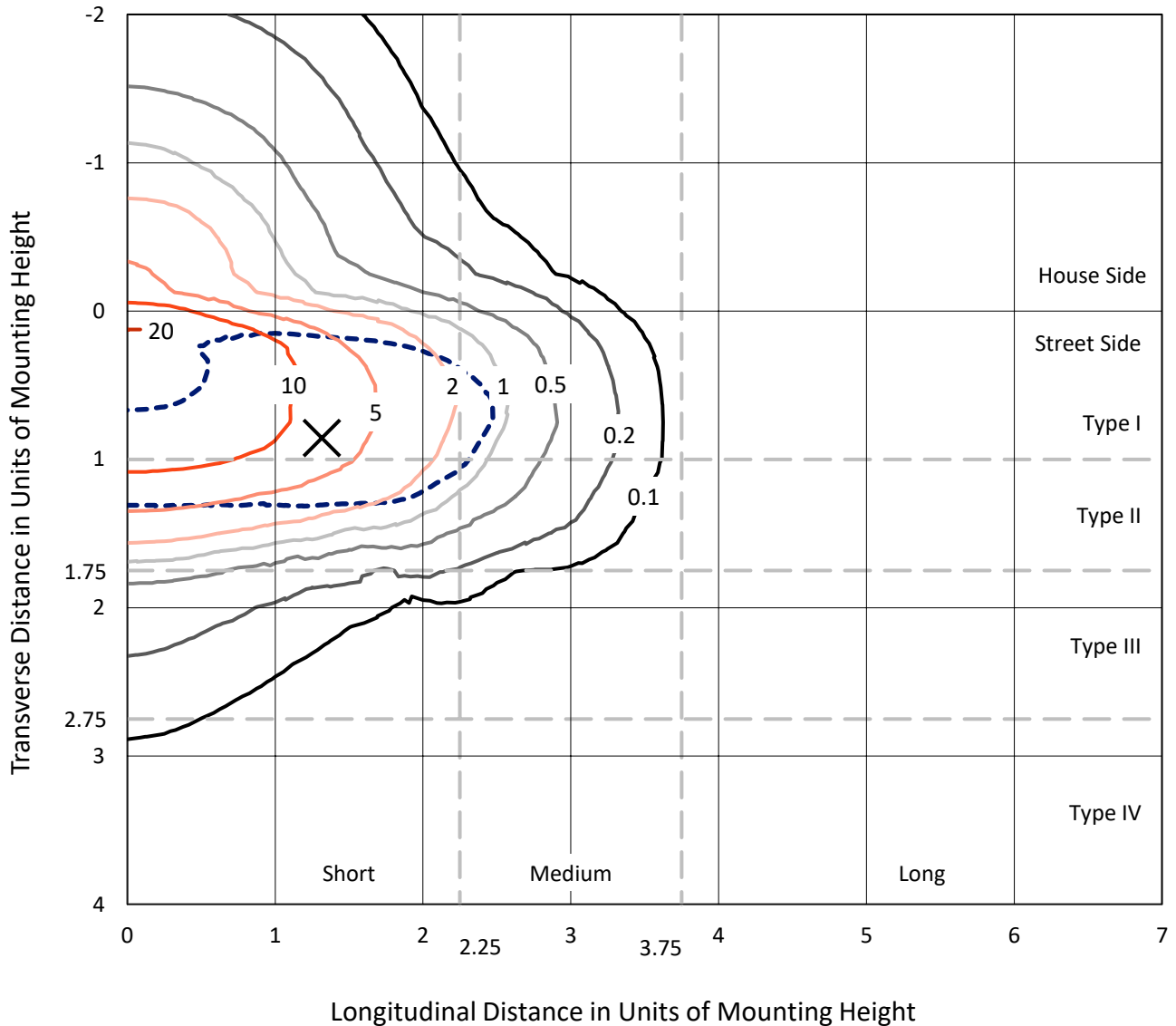
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

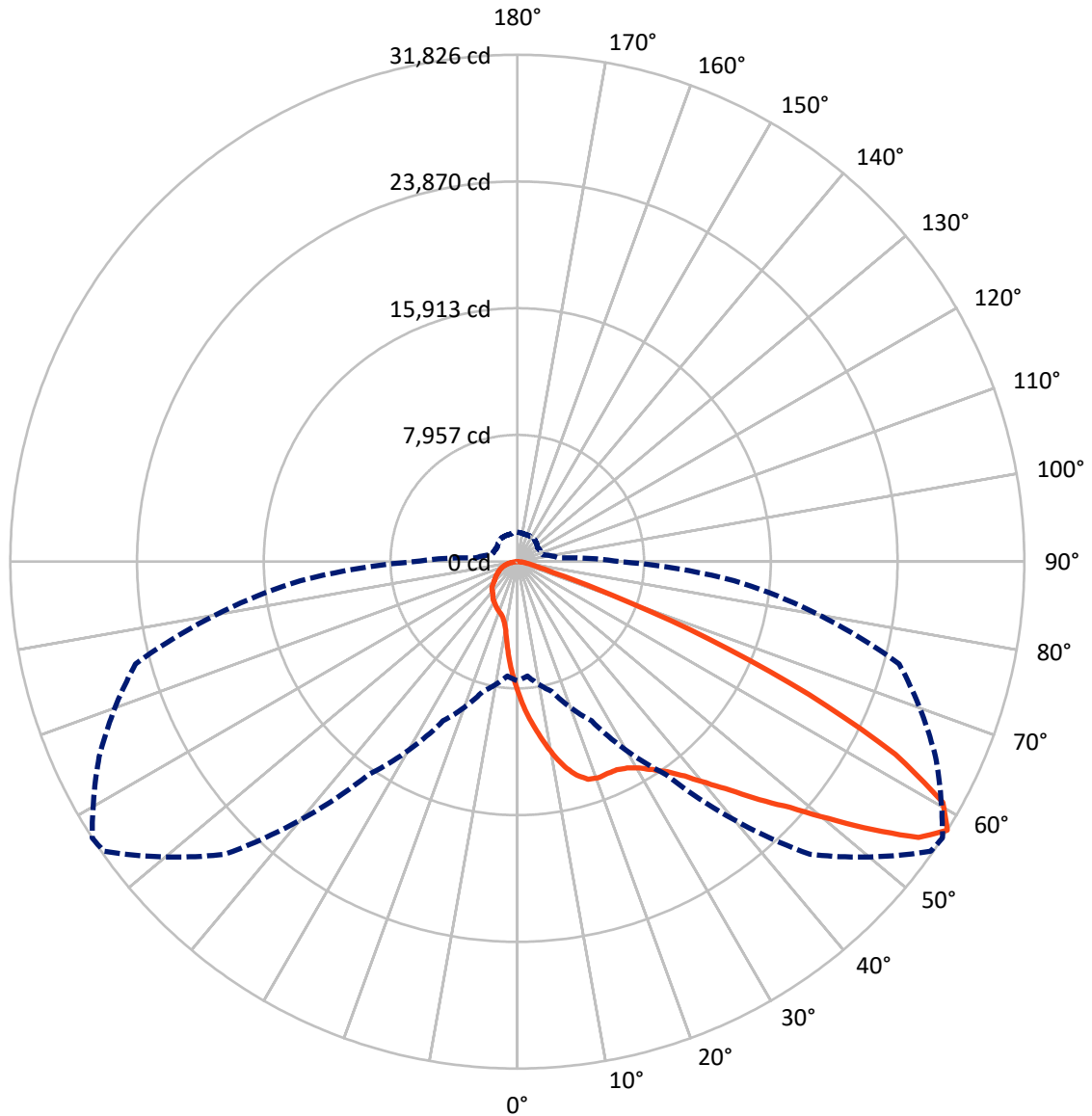
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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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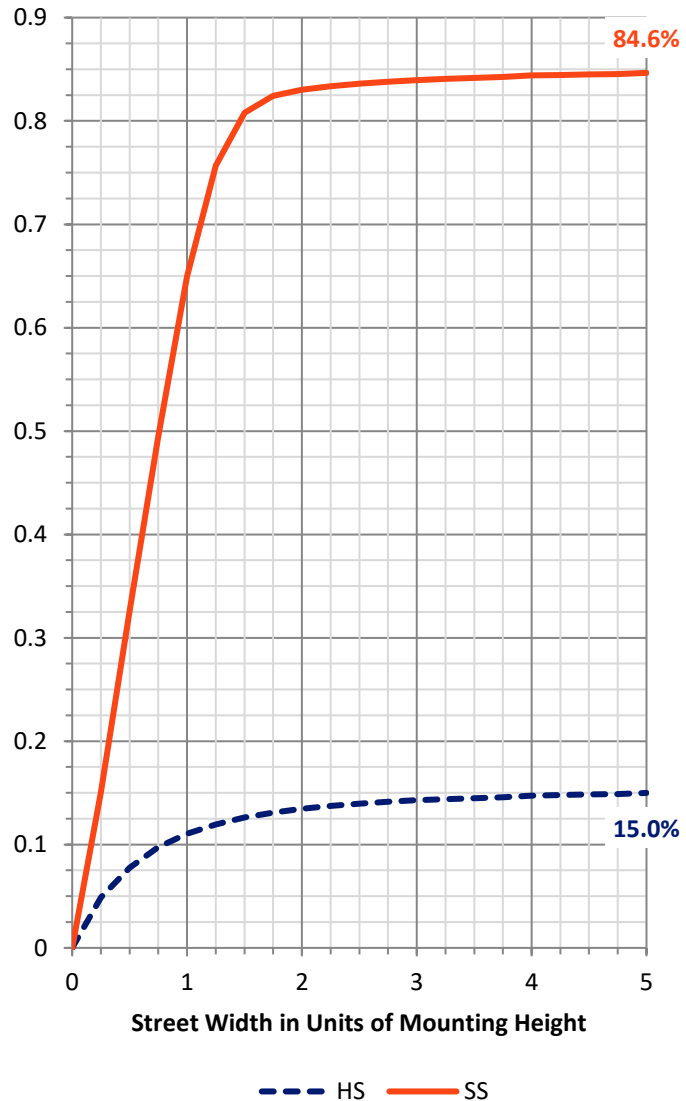
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5963.7	0.0	5963.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	33252.3	0.0	33252.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	39216.0	0.0	39216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.8	2.0
10°-20°	2333.6	6.0
20°-30°	3874.9	9.9
30°-40°	5836.8	14.9
40°-50°	8763.4	22.3
50°-60°	9822.7	25.0
60°-70°	5748.7	14.7
70°-80°	1700.4	4.3
80°-90°	343.7	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°	39216.0	100.0
0°-180°	39216.0	100.0

Coefficient of Utilization



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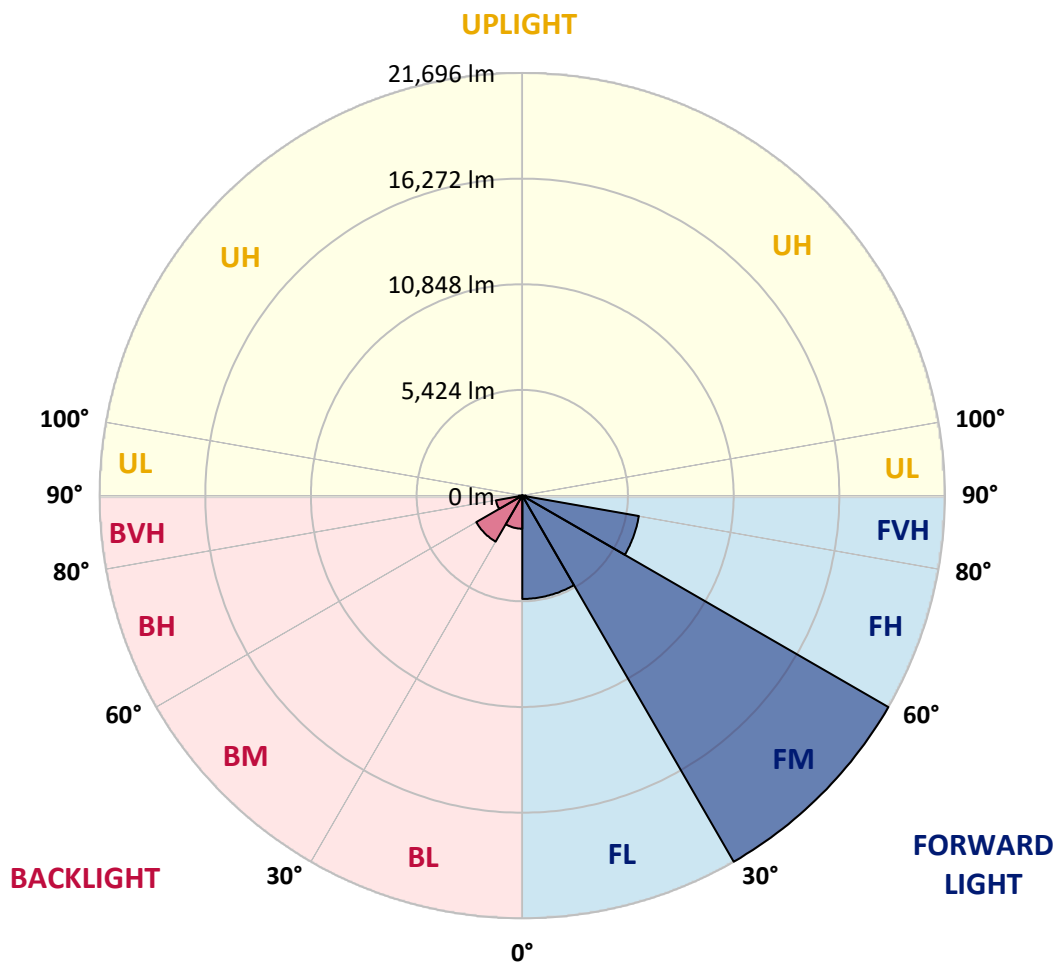
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5301.1	13.5			
FM	(30°-60°)	21696.0	55.3			
FH	(60°-80°)	6076.9	15.5			G3/7500
FVH	(80°-90°)	178.3	0.5			G2/225
BL	(0°-30°)	1699.3	4.3	B3/2500		
BM	(30°-60°)	2726.8	7.0	B3/5000		
BH	(60°-80°)	1372.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	165.4	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°	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8
2.5°	10237.4	10125.7	10037.7	9960.4	9859.6	9586.9	9314.3	9310.0	9093.2	8758.3	8414.9
5°	11905.3	11755.0	11774.4	11533.9	11293.5	10898.5	10321.1	10291.0	9829.5	9202.7	8565.1
7.5°	12991.5	12993.7	12933.6	12796.2	12536.4	12087.8	11433.0	11284.9	10643.1	9692.1	8736.9
10°	12935.7	12993.7	13094.5	13212.6	13292.0	13070.9	12474.2	12293.8	11458.8	10284.6	8927.9
12.5°	12193.0	12283.1	12426.9	12723.2	13201.9	13566.8	13362.9	13216.9	12403.3	10874.9	9138.3
15°	11729.3	11782.9	11862.4	12062.0	12577.2	13450.9	13979.0	13901.7	13294.2	11542.5	9374.4
17.5°	11587.6	11641.3	11667.0	11789.4	12156.5	13051.6	14221.5	14358.9	14084.2	12156.5	9612.7
20°	11729.3	11755.0	11755.0	11828.0	12115.7	12817.6	14210.8	14487.7	14732.4	12892.8	9835.9
22.5°	12100.7	12111.4	12096.4	12122.1	12336.8	12882.0	14109.9	14453.4	15256.2	13517.4	10009.8
25°	12703.9	12721.0	12622.3	12562.2	12718.9	13165.4	14165.7	14481.3	15666.2	14114.2	10125.7
27.5°	13388.6	13410.1	13289.9	13150.4	13223.3	13515.3	14384.7	14668.0	15973.2	14702.4	10198.7
30°	14228.0	14236.6	14034.8	13867.3	13820.1	14036.9	14758.2	15022.2	16355.3	15395.8	10308.2
32.5°	15086.6	15151.0	14891.3	14655.2	14575.7	14642.3	15309.9	15565.3	16810.4	16140.6	10484.2
35°	16254.4	16265.1	15953.9	15666.2	15404.3	15490.2	16016.1	16200.7	17439.4	17001.4	10733.2
37.5°	17712.0	17810.7	17381.4	16844.7	16522.7	16398.2	16870.5	17072.3	18321.6	18057.6	11108.9
40°	19330.6	19367.1	19000.0	18665.1	18076.9	17716.3	18042.6	18261.5	19410.0	19317.7	11544.7
42.5°	20348.1	20427.5	20455.4	20421.1	19978.8	19373.5	19498.0	19601.0	20698.0	20500.5	11991.2
45°	20691.5	20809.6	21208.9	22054.7	22101.9	21505.1	21215.3	21314.1	22101.9	21694.0	12418.4
47.5°	20122.7	20324.5	21060.8	22795.2	24094.0	24139.1	23265.4	23048.6	23381.3	22683.6	12727.5
50°	18652.2	18695.2	19822.1	22333.7	25027.8	26657.1	25753.3	25349.8	24596.3	23415.6	12940.0
52.5°	16376.8	16426.1	17370.7	20189.2	24452.5	28417.3	28664.2	27942.9	25830.6	23984.5	13079.5
55°	12156.5	12442.0	13480.9	16205.0	21726.2	28252.0	30978.3	30568.3	27322.5	24435.3	13298.5
57.5°	7474.6	7212.7	8444.9	11025.2	16340.3	25980.9	31693.1	31826.2	28964.7	24813.1	13665.6
60°	3438.9	3490.4	3999.2	5686.5	9960.4	20324.5	29851.3	30692.8	29872.7	24800.2	13757.9
62.5°	2369.9	2322.7	2193.9	2496.6	4542.3	12854.1	25214.5	26639.9	28052.4	24029.6	13390.8
65°	2118.7	2071.5	1822.5	1738.8	2086.5	5602.7	18330.2	20129.1	23619.6	22084.7	12476.3
67.5°	1979.2	1914.8	1657.2	1494.1	1489.8	2230.4	10808.4	12974.3	17518.8	18671.5	10810.5
70°	1833.2	1781.7	1526.3	1345.9	1268.7	1401.8	4750.5	6218.8	11375.1	13455.2	8421.3
72.5°	1687.3	1627.2	1397.5	1204.3	1103.4	1049.7	1820.4	2367.8	6427.1	8067.1	5162.7
75°	1474.7	1444.7	1249.3	1090.5	981.0	847.9	1154.9	1318.0	3074.0	3705.1	2591.0
77.5°	1290.1	1257.9	1109.8	953.1	873.7	689.1	820.0	895.2	1296.6	1502.7	1169.9
80°	944.5	976.7	935.9	841.5	779.2	541.0	551.7	613.9	770.6	852.2	714.8
82.5°	598.9	659.0	721.3	648.3	590.3	427.2	382.1	405.7	525.9	558.1	317.7
85°	251.2	255.5	418.6	395.0	337.0	253.3	229.7	242.6	281.2	294.1	148.1
87.5°	96.6	94.5	148.1	137.4	105.2	73.0	73.0	81.6	111.6	103.0	47.2
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°	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8	8238.8
2.5°	8266.7	8114.3	7811.6	7436.0	7161.2	6852.1	6579.5	6384.1	6311.1	6276.8	6212.4
5°	8260.3	7959.8	7332.9	6676.1	6148.0	5607.0	5149.8	4853.6	4827.8	4630.3	4611.0
7.5°	8262.4	7803.1	6804.9	5838.9	5033.9	4480.1	4102.2	4003.5	3885.4	3855.4	3870.4
10°	8268.9	7603.4	6238.2	5010.3	4231.0	3868.3	3726.6	3687.9	3692.2	3705.1	3707.3
12.5°	8277.5	7410.2	5650.0	4381.3	3780.2	3630.0	3615.0	3649.3	3685.8	3713.7	3720.1
15°	8288.2	7189.1	5076.8	3874.7	3554.8	3542.0	3591.3	3649.3	3700.8	3741.6	3748.0
17.5°	8275.3	6931.5	4596.0	3563.4	3430.3	3492.6	3574.2	3647.2	3694.4	3733.0	3737.3
20°	8245.3	6643.9	4132.3	3344.5	3353.1	3454.0	3542.0	3610.7	3662.2	3681.5	3696.5
22.5°	8129.4	6300.4	3728.7	3174.9	3260.8	3400.3	3505.5	3546.3	3488.3	3447.5	3458.2
25°	7931.9	5853.9	3353.1	3037.5	3177.0	3325.2	3432.5	3333.7	3286.5	3269.3	3277.9
27.5°	7685.0	5364.5	3069.7	2893.7	3069.7	3241.4	3211.4	3194.2	3172.7	3144.8	3151.3
30°	7418.8	4885.8	2829.3	2782.1	2953.8	3052.5	3065.4	3093.3	3069.7	3026.8	3043.9
32.5°	7171.9	4435.0	2646.8	2687.6	2872.2	2857.2	2953.8	2986.0	2876.5	2732.7	2739.1
35°	6961.6	4016.4	2509.4	2595.3	2732.7	2739.1	2835.7	2724.1	2606.0	2537.3	2541.6
37.5°	6802.7	3690.1	2419.3	2515.9	2554.5	2636.1	2584.6	2526.6	2511.6	2464.4	2466.5
40°	6708.3	3404.6	2361.3	2453.6	2447.2	2503.0	2337.7	2395.7	2417.1	2402.1	2404.2
42.5°	6613.8	3202.8	2301.2	2367.8	2365.6	2256.1	2219.6	2269.0	2324.8	2331.3	2327.0
45°	6538.7	3046.1	2239.0	2236.8	2279.7	2108.0	2097.3	2127.3	2206.8	2245.4	2243.2
47.5°	6455.0	2915.1	2144.5	2084.4	2097.3	2015.7	1998.5	2011.4	2108.0	2170.3	2187.4
50°	6349.8	2784.2	2026.4	1944.9	1891.2	1929.8	1934.1	1936.3	2032.9	2103.7	2118.7
52.5°	6266.1	2685.5	1891.2	1831.1	1766.7	1852.6	1884.8	1889.0	1947.0	2005.0	2015.7
55°	6315.4	2629.6	1758.1	1715.2	1657.2	1773.1	1835.4	1844.0	1856.9	1899.8	1906.2
57.5°	6463.6	2642.5	1650.8	1595.0	1552.0	1678.7	1783.9	1790.3	1781.7	1833.2	1841.8
60°	6508.6	2636.1	1571.3	1461.9	1436.1	1577.8	1708.7	1721.6	1719.5	1794.6	1809.6
62.5°	6319.7	2554.5	1491.9	1350.2	1333.1	1474.7	1603.5	1655.1	1665.8	1773.1	1792.5
65°	5875.4	2387.1	1386.7	1232.2	1232.2	1365.3	1502.7	1573.5	1603.5	1747.4	1768.8
67.5°	5289.3	2189.6	1279.4	1131.3	1127.0	1260.1	1395.3	1468.3	1515.5	1710.9	1723.8
70°	4389.9	1923.4	1146.3	1021.8	1021.8	1142.0	1264.4	1352.4	1421.1	1642.2	1642.2
72.5°	3007.5	1599.3	985.3	897.3	899.4	1011.1	1135.6	1234.3	1315.9	1504.8	1509.1
75°	1901.9	1249.3	809.3	764.2	772.8	878.0	1006.8	1109.8	1273.0	1487.6	1494.1
77.5°	1011.1	878.0	644.0	633.3	644.0	740.6	884.4	1026.1	1277.3	1290.1	1268.7
80°	654.7	622.5	508.8	487.3	491.6	596.8	787.8	974.6	1026.1	1039.0	991.8
82.5°	356.3	395.0	360.6	339.2	339.2	465.8	671.9	774.9	736.3	611.8	583.9
85°	152.4	184.6	186.8	163.1	156.7	287.7	450.8	422.9	392.8	375.7	371.4
87.5°	42.9	60.1	60.1	45.1	34.3	79.4	90.2	25.8	0.0	2.1	4.3
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)