

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: P454415

Luminaire Tested: **GALN-SA5C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32678 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

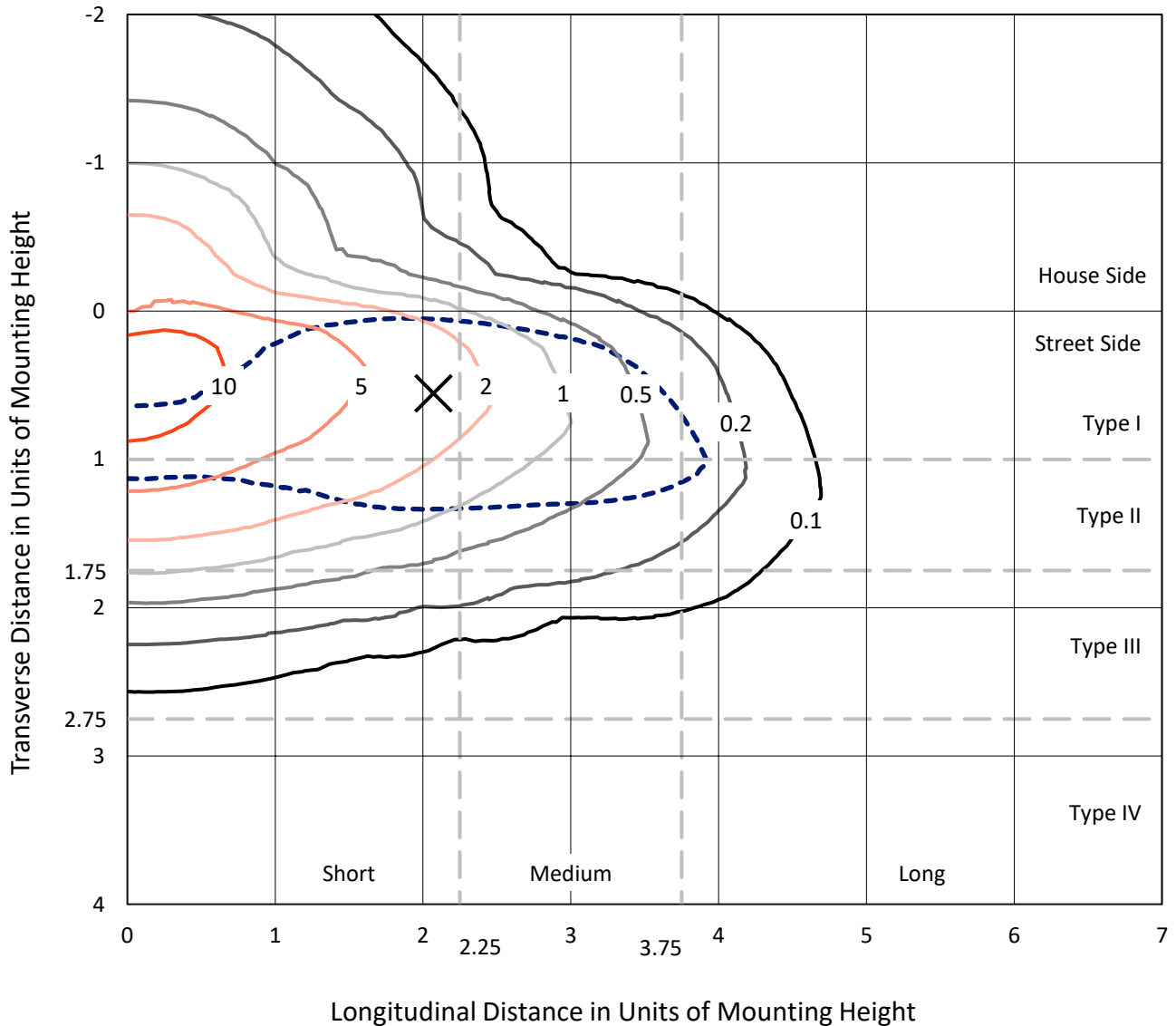
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

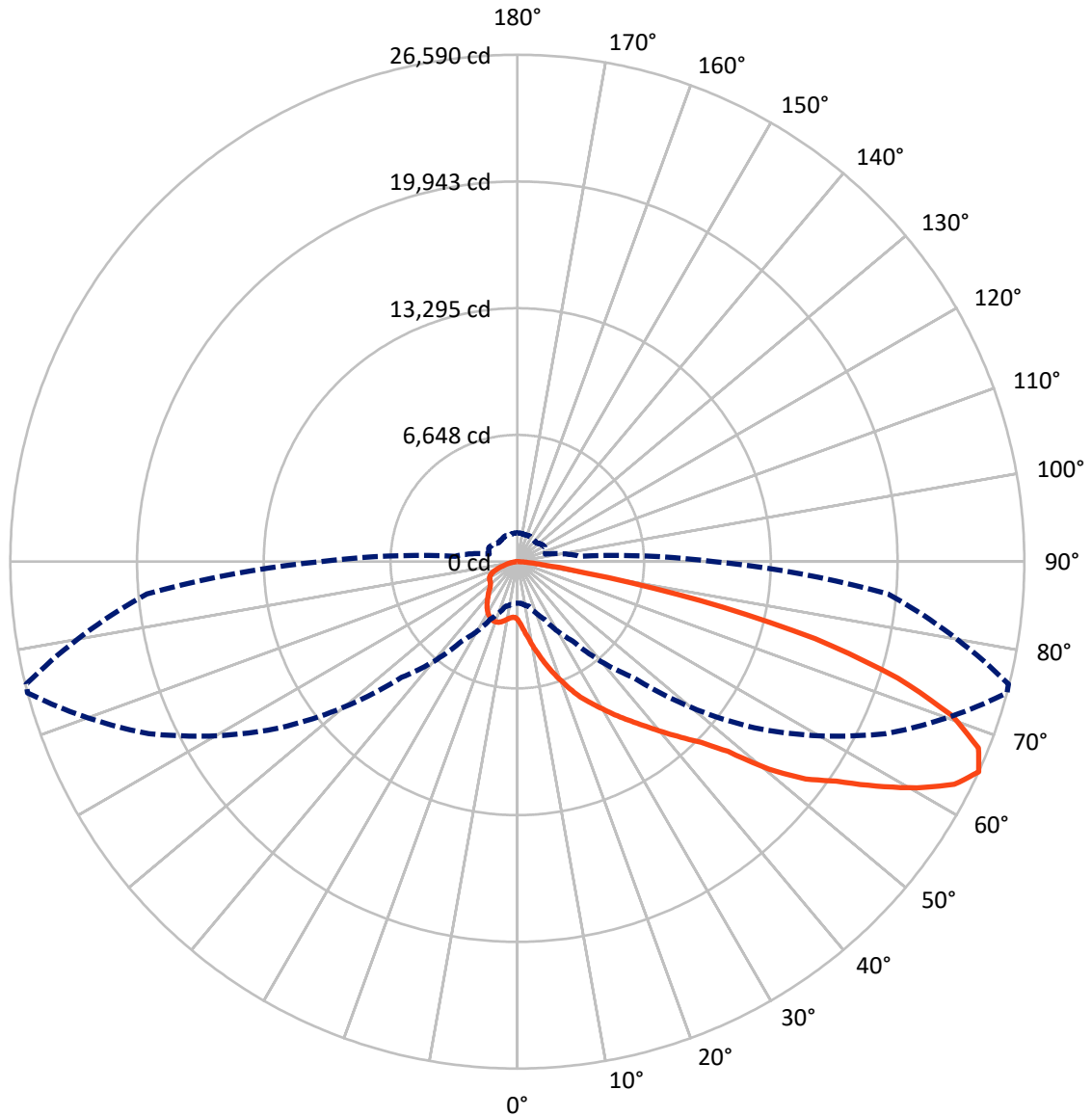
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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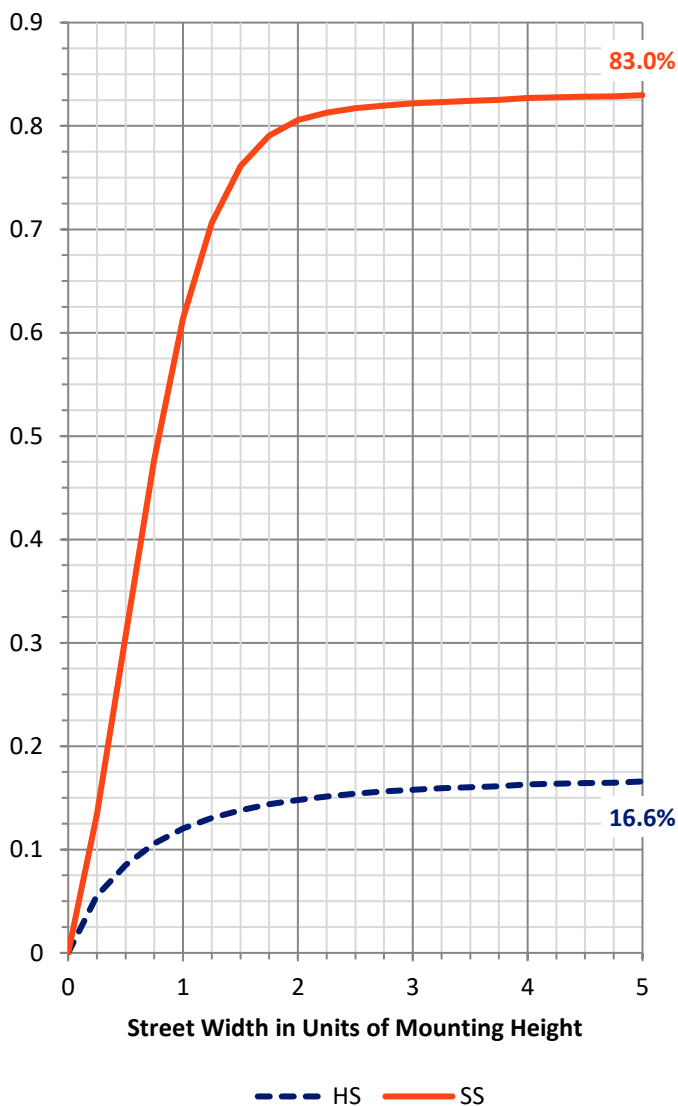
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5493.6	0.0	5493.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27184.4	0.0	27184.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	32678.0	0.0	32678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	1.1
10°-20°	1444.9	4.4
20°-30°	2791.0	8.5
30°-40°	4533.5	13.9
40°-50°	6236.2	19.1
50°-60°	7362.8	22.5
60°-70°	6451.1	19.7
70°-80°	3079.8	9.4
80°-90°	409.8	1.3
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°	32678.0	100.0
0°-180°	32678.0	100.0

Coefficient of Utilization



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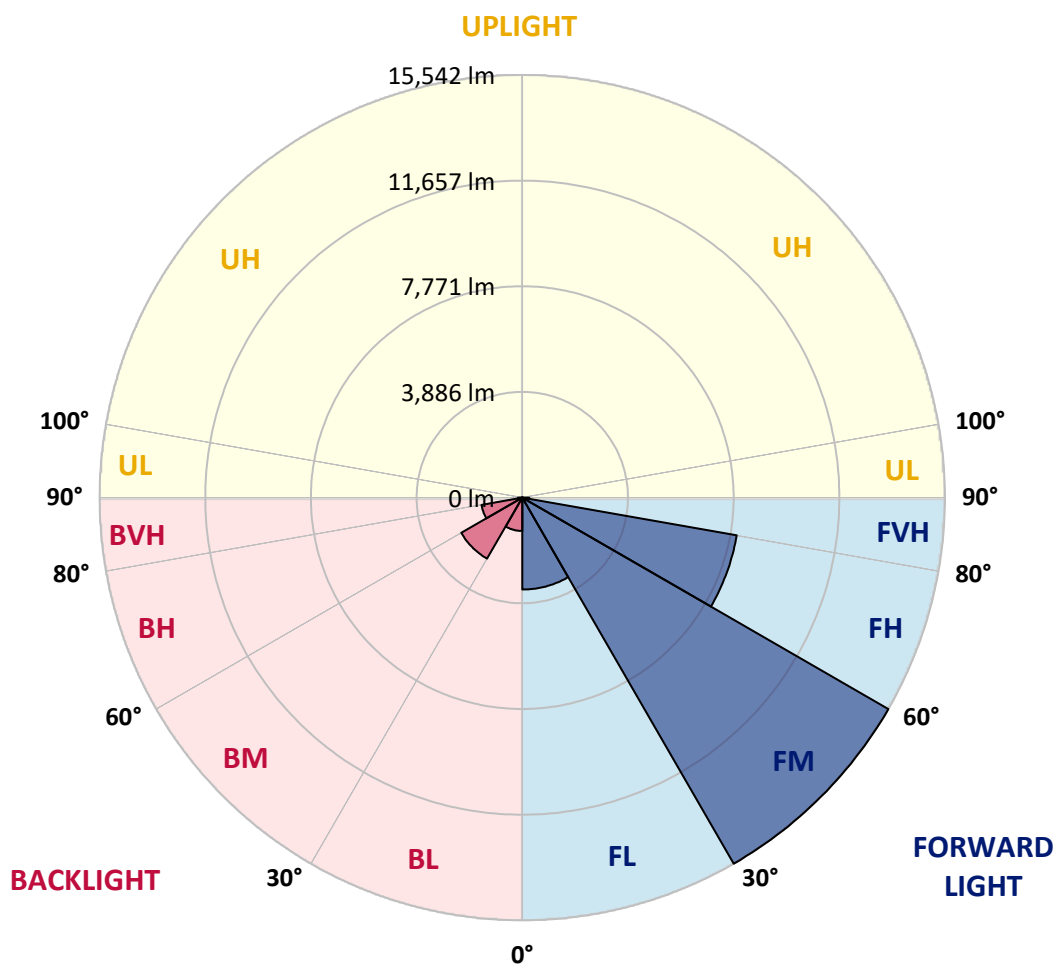
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3378.4	10.3			
FM	(30°-60°)	15542.3	47.6			
FH	(60°-80°)	8007.6	24.5			G4/12000
FVH	(80°-90°)	256.1	0.8			G3/500
BL	(0°-30°)	1226.4	3.8	B3/2500		
BM	(30°-60°)	2590.2	7.9	B3/5000		
BH	(60°-80°)	1523.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	153.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	4034.1	4007.5	3979.1	3901.2	3817.8	3723.9	3589.2	3459.8	3287.9	3282.6	3155.0
5°	5152.5	5134.8	5008.9	4936.3	4743.1	4486.1	4268.0	3929.5	3615.8	3578.6	3330.4
7.5°	6180.5	6111.4	6063.5	5932.4	5741.0	5411.3	4989.4	4532.1	4007.5	3957.9	3546.7
10°	6955.1	6948.0	6923.2	6809.7	6666.2	6338.3	5870.3	5214.5	4503.8	4406.3	3809.0
12.5°	7534.7	7540.0	7536.4	7534.7	7431.9	7153.6	6646.7	5955.4	5005.4	4936.3	4112.1
15°	7915.7	7968.9	7990.2	8078.8	8087.7	7901.6	7465.5	6671.5	5570.8	5468.0	4438.2
17.5°	8167.4	8194.0	8293.3	8443.9	8566.2	8532.6	8144.4	7334.4	6148.6	5976.7	4776.7
20°	8408.5	8454.6	8530.8	8736.4	8952.6	9051.9	8778.9	8013.2	6721.1	6611.2	5150.7
22.5°	8910.1	8975.7	9002.3	9106.8	9291.2	9466.6	9342.6	8663.7	7348.6	7199.7	5547.8
25°	9759.1	9828.2	9753.8	9729.0	9789.2	9876.1	9849.5	9277.0	7940.6	7727.9	5923.5
27.5°	10865.1	10874.0	10728.6	10590.4	10441.5	10397.2	10315.6	9821.1	8454.6	8277.3	6301.0
30°	12052.6	12010.1	11769.0	11519.1	11267.4	11019.3	10785.3	10345.8	9027.1	8823.2	6671.5
32.5°	13155.1	13132.0	12864.4	12476.2	12050.9	11816.9	11343.7	10875.7	9640.3	9443.6	7052.6
35°	13981.0	14014.7	13720.5	13296.9	12832.5	12625.1	12027.8	11432.3	10274.9	10060.4	7467.3
37.5°	14567.7	14550.0	14289.5	13922.6	13514.9	13334.1	12827.2	12040.2	10957.3	10751.7	7921.1
40°	14776.9	14766.2	14573.0	14305.4	14046.6	13982.8	13663.8	12696.0	11738.9	11497.9	8467.0
42.5°	14643.9	14667.0	14539.4	14466.7	14418.8	14464.9	14495.1	13555.7	12591.5	12369.9	9059.0
45°	14236.3	14223.9	14206.1	14324.9	14594.3	14897.4	15317.5	14367.4	13518.4	13341.2	9853.0
47.5°	13507.8	13596.4	13640.7	13968.6	14557.1	15274.9	16264.0	15455.7	14863.7	14709.5	11063.6
50°	12488.7	12559.5	12821.9	13405.0	14282.4	15416.7	17189.2	17235.3	17107.6	16818.7	12378.8
52.5°	10897.0	11006.9	11547.5	12616.3	13718.7	15358.2	17749.3	18761.3	18929.7	18713.5	13674.4
55°	9115.7	9269.9	9840.6	11242.6	12942.4	15039.2	18135.7	19645.8	20317.5	20117.3	14922.2
57.5°	7371.6	7534.7	8121.3	9479.0	11588.2	14333.8	18389.1	20631.3	22207.0	21946.4	16474.9
60°	5524.7	5694.9	6198.2	7596.7	9659.8	12954.8	18217.2	21485.6	24094.6	23983.0	18029.3
62.5°	3564.4	3752.3	4190.1	5347.5	7424.8	11070.7	17297.3	21957.1	25728.8	25594.1	19163.7
65°	2171.2	2192.5	2433.6	3319.8	5081.6	8571.5	15193.4	21331.4	26590.2	26549.5	19509.3
67.5°	1403.8	1437.5	1547.3	1988.7	3046.8	5953.6	12148.3	19266.5	26086.9	26072.7	18795.0
70°	1185.8	1196.4	1246.0	1341.7	1770.7	3610.5	8530.8	15975.1	24174.4	24174.4	17077.5
72.5°	1059.9	1074.1	1091.8	1122.0	1263.8	2045.4	5090.5	12435.5	20872.3	21010.6	14535.8
75°	962.4	958.9	969.5	974.8	1077.6	1336.4	2632.1	9197.2	16147.0	15870.5	10526.6
77.5°	824.2	829.5	824.2	847.2	951.8	1017.4	1336.4	6171.7	9785.7	9427.6	5283.7
80°	677.1	685.9	694.8	709.0	813.6	772.8	802.9	2812.9	3619.3	3543.1	1632.4
82.5°	508.7	521.1	535.3	569.0	639.9	510.5	506.9	1201.7	1306.3	1196.4	600.9
85°	205.6	242.8	366.9	400.6	402.3	280.0	312.0	501.6	533.5	521.1	235.7
87.5°	47.9	56.7	118.8	179.0	164.8	104.6	115.2	163.1	186.1	171.9	79.8
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°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3096.5	3034.4	2928.1	2846.5	2788.1	2736.7	2704.8	2685.3	2678.2	2676.4	2678.2
5°	3201.0	3091.1	2922.8	2816.4	2757.9	2724.2	2704.8	2703.0	2704.8	2706.5	2701.2
7.5°	3344.6	3186.9	2967.1	2867.8	2823.5	2798.7	2789.8	2786.3	2788.1	2786.3	2786.3
10°	3536.0	3319.8	3053.9	2951.1	2913.9	2885.5	2871.4	2862.5	2855.4	2848.3	2844.8
12.5°	3746.9	3466.9	3147.9	3048.6	2995.4	2951.1	2919.2	2896.2	2880.2	2864.3	2860.7
15°	3982.7	3622.9	3252.4	3114.2	3038.0	2972.4	2917.4	2880.2	2851.9	2828.8	2827.1
17.5°	4207.8	3770.0	3323.3	3144.3	3032.7	2940.5	2867.8	2816.4	2781.0	2750.8	2747.3
20°	4448.8	3910.0	3355.2	3124.8	2979.5	2867.8	2772.1	2710.1	2669.3	2635.6	2630.3
22.5°	4691.7	4028.8	3351.7	3062.8	2887.3	2756.2	2655.1	2589.5	2541.7	2508.0	2495.6
25°	4923.9	4124.5	3307.4	2963.5	2759.7	2623.2	2520.4	2460.2	2417.6	2376.8	2376.8
27.5°	5133.0	4181.2	3224.1	2843.0	2628.5	2485.0	2403.4	2348.5	2309.5	2282.9	2267.0
30°	5338.6	4207.8	3110.6	2690.6	2490.3	2368.0	2302.4	2270.5	2235.1	2204.9	2201.4
32.5°	5522.9	4202.5	2968.8	2541.7	2359.1	2272.3	2245.7	2220.9	2183.7	2141.1	2130.5
35°	5702.0	4167.0	2800.5	2378.6	2249.2	2215.6	2222.6	2187.2	2119.8	2066.7	2057.8
37.5°	5896.9	4103.2	2616.1	2245.7	2157.1	2189.0	2206.7	2128.7	2018.8	1935.5	1916.0
40°	6122.0	4030.5	2424.7	2112.8	2084.4	2164.2	2164.2	2020.6	1869.9	1818.5	1804.3
42.5°	6386.1	3970.3	2265.2	2001.1	2024.1	2103.9	2095.0	1877.0	1815.0	1788.4	1781.3
45°	6804.4	3949.0	2100.3	1903.6	1974.5	2033.0	1960.3	1827.4	1791.9	1770.7	1763.6
47.5°	7465.5	3973.8	1955.0	1830.9	1917.8	1962.1	1809.7	1793.7	1768.9	1738.8	1735.2
50°	8078.8	3950.8	1852.2	1790.2	1868.2	1877.0	1747.6	1752.9	1738.8	1705.1	1698.0
52.5°	8580.4	3878.1	1786.6	1768.9	1825.6	1728.1	1689.1	1708.6	1703.3	1660.8	1653.7
55°	9131.6	3833.8	1754.7	1768.9	1797.3	1598.7	1634.2	1662.6	1655.5	1625.3	1623.6
57.5°	9799.9	3842.7	1731.7	1774.2	1768.9	1533.2	1579.2	1612.9	1611.2	1602.3	1602.3
60°	10484.0	3846.2	1696.2	1772.4	1735.2	1481.8	1522.5	1570.4	1573.9	1579.2	1579.2
62.5°	10710.9	3692.0	1627.1	1740.5	1660.8	1432.1	1469.4	1534.9	1531.4	1545.6	1547.3
65°	10287.3	3264.8	1524.3	1667.9	1565.1	1396.7	1428.6	1488.9	1469.4	1506.6	1513.7
67.5°	9363.8	2701.2	1364.8	1536.7	1458.7	1359.5	1402.0	1425.0	1389.6	1462.3	1464.0
70°	8093.0	2109.2	1162.7	1350.6	1338.2	1320.5	1380.7	1345.3	1295.7	1384.3	1366.6
72.5°	6767.2	1611.2	928.8	1104.2	1176.9	1262.0	1343.5	1242.5	1173.4	1199.9	1168.0
75°	5083.4	1191.1	746.2	865.0	980.2	1178.7	1309.8	1118.4	1012.1	987.3	980.2
77.5°	2591.3	778.1	558.3	646.9	735.6	1065.2	1263.8	973.1	838.4	799.4	781.6
80°	925.2	483.9	393.5	446.7	496.3	916.4	1104.2	804.7	650.5	643.4	650.5
82.5°	428.9	312.0	264.1	292.5	294.2	611.5	841.9	600.9	494.5	751.5	634.5
85°	184.3	156.0	148.9	145.3	134.7	273.0	473.2	322.6	503.4	225.1	207.4
87.5°	54.9	62.0	54.9	40.8	30.1	30.1	47.9	17.7	12.4	8.9	8.9
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)