

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: P530685

Luminaire Tested: **GALN-SA5D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20360 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 309
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

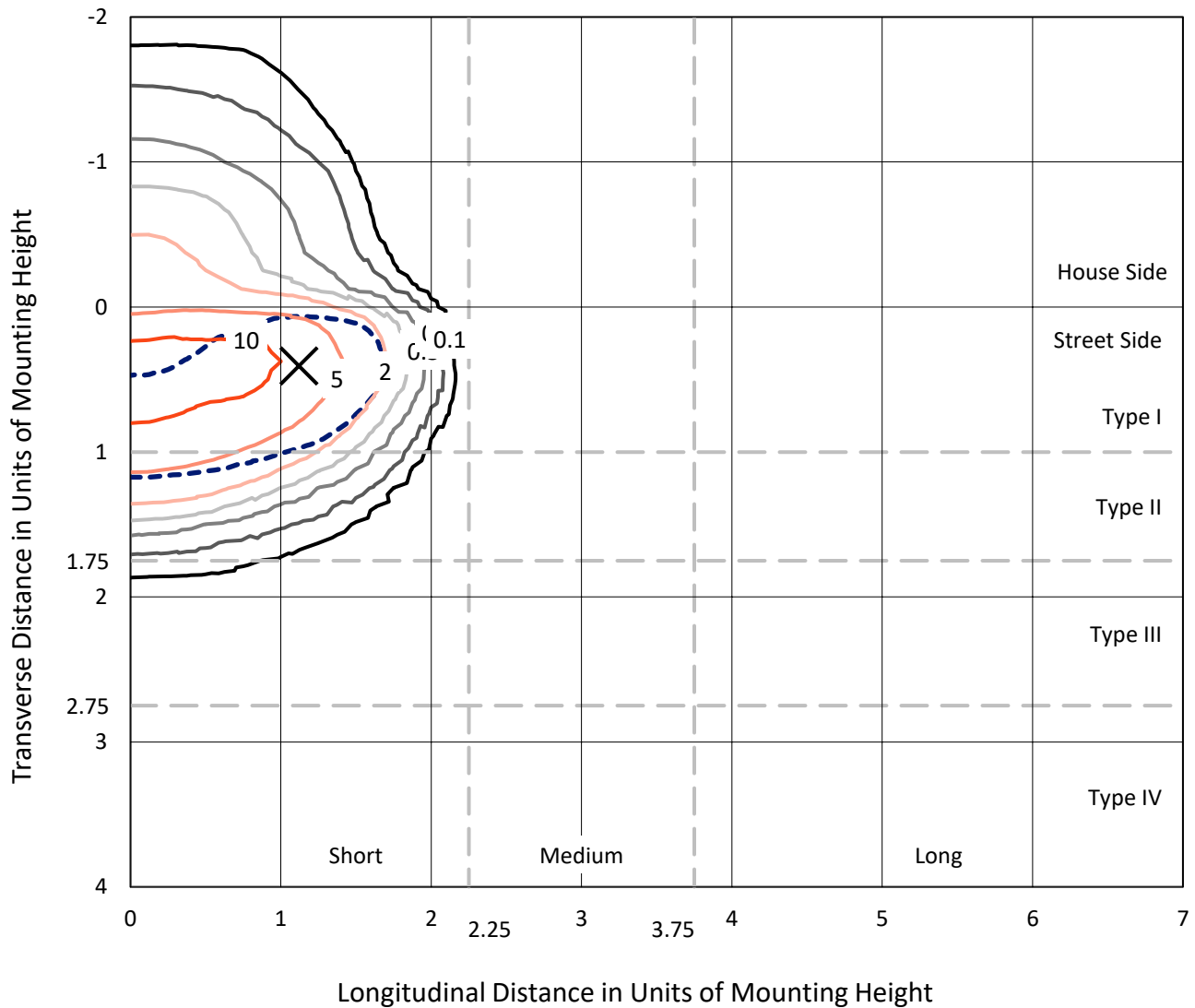


REPORT NUMBER: P530685

CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

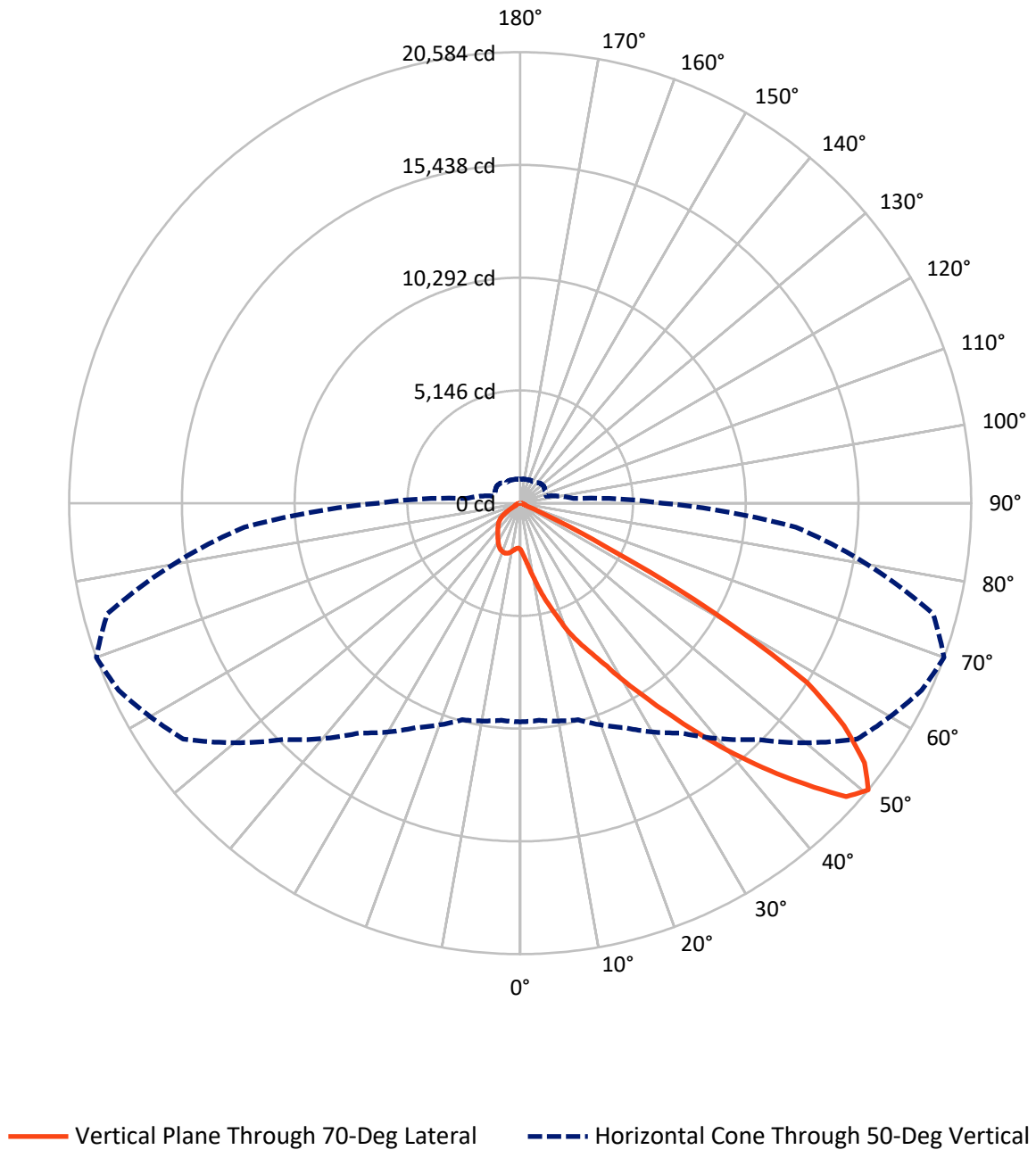


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type I - Short - N/A

REPORT NUMBER: P530685

CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P530685

CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

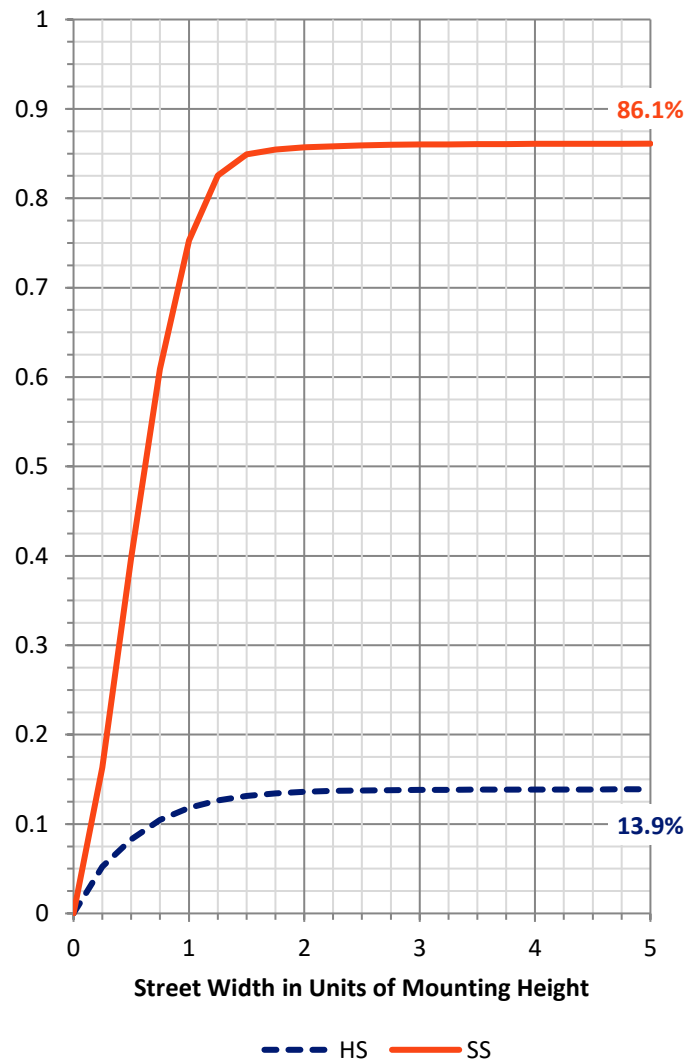
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.4	0.0	2843.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17516.6	0.0	17516.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	20360.0	0.0	20360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	1.3
10°-20°	1186.2	5.8
20°-30°	2488.5	12.2
30°-40°	4289.4	21.1
40°-50°	6268.9	30.8
50°-60°	4882.4	24.0
60°-70°	827.2	4.1
70°-80°	113.6	0.6
80°-90°	29.4	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°	20360.0	100.0
0°-180°	20360.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530685

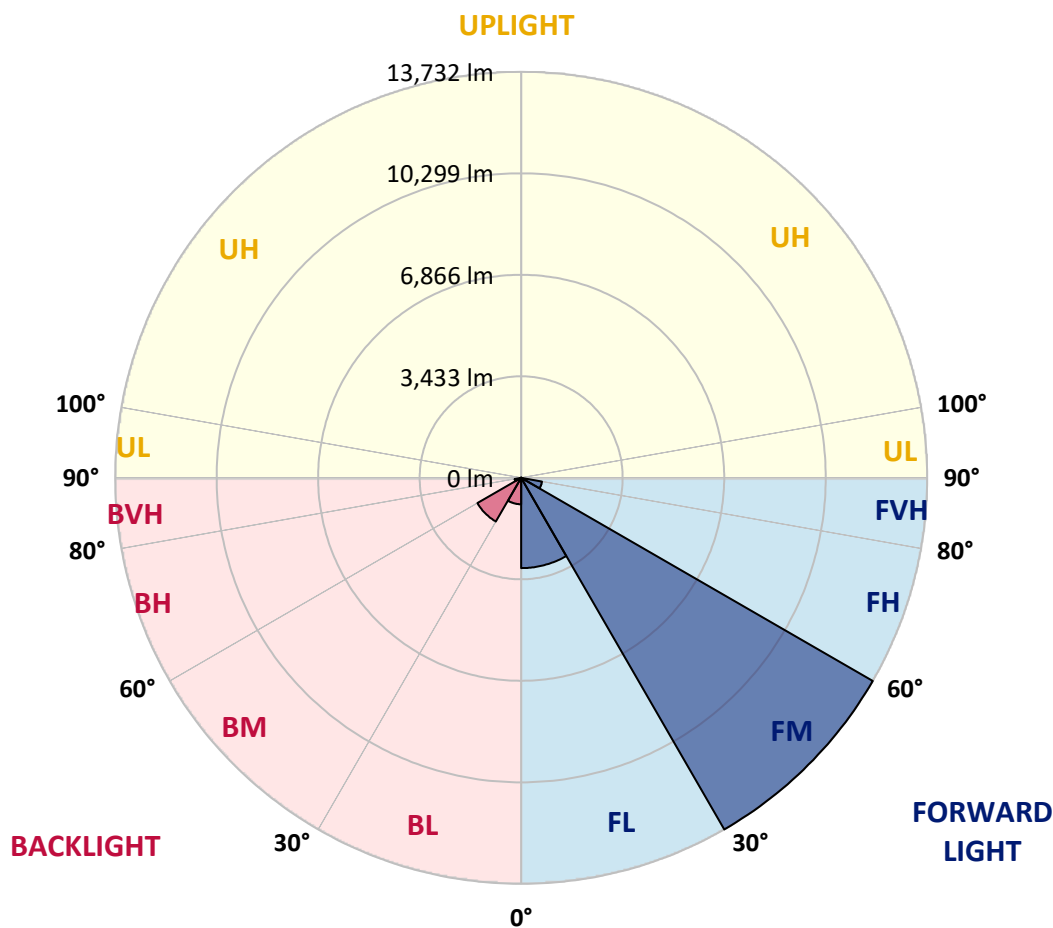
CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3054.2	15.0			
FM	(30°-60°)	13732.5	67.4			
FH	(60°-80°)	716.3	3.5			G1/1800
FVH	(80°-90°)	13.6	0.1			G1/100
BL	(0°-30°)	894.8	4.4	B2/1000		
BM	(30°-60°)	1708.2	8.4	B2/2500		
BH	(60°-80°)	224.6	1.1	B1/500		G1/500
BVH	(80°-90°)	15.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



REPORT NUMBER: P530685

CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2761.6	2741.6	2698.0	2617.7	2584.2	2503.9	2457.0	2366.6	2309.7	2246.1	2175.8
5°	3889.7	3786.0	3722.4	3632.0	3367.5	3203.5	2932.4	2701.4	2594.3	2477.1	2316.4
7.5°	5054.7	4987.7	4900.7	4706.5	4525.8	4184.3	3719.0	3210.2	2992.6	2791.8	2473.8
10°	6018.7	5831.3	5821.2	5677.3	5479.8	5071.4	4512.4	3879.7	3491.4	3196.8	2698.0
12.5°	6691.6	6520.8	6597.8	6581.1	6397.0	6022.1	5376.0	4539.1	4134.1	3675.5	2929.0
15°	7304.1	7233.8	7210.4	7190.3	7116.7	6838.8	6259.7	5342.5	4756.7	4204.4	3190.1
17.5°	7903.3	7722.6	7809.6	7826.3	7819.6	7568.6	7026.3	6105.8	5416.2	4763.4	3464.6
20°	8435.6	8452.3	8335.2	8311.7	8291.6	8281.6	7752.7	6862.3	6226.3	5349.2	3822.8
22.5°	9118.5	9001.3	9105.1	9038.1	8907.6	8827.2	8422.2	7531.8	6929.2	6055.5	4187.7
25°	9925.2	10018.9	9774.6	9747.8	9603.8	9326.0	8961.1	8281.6	7605.4	6711.6	4582.7
27.5°	10919.4	10755.4	10691.8	10544.5	10283.4	10166.2	9737.7	9054.9	8422.2	7401.2	4964.3
30°	11773.0	11729.5	11411.5	11237.4	11009.8	11006.4	10407.2	10102.6	9486.7	8482.4	5489.8
32.5°	12469.3	12278.5	12161.3	12040.8	11856.7	11906.9	11401.4	11240.7	10621.5	9486.7	6109.1
35°	12934.6	12797.3	12727.0	12542.9	12489.3	12713.6	12502.7	12435.8	11927.0	10899.3	6835.5
37.5°	13081.8	13125.4	13112.0	12881.0	12994.8	13600.7	13871.8	13697.8	13430.0	12388.9	7622.1
40°	13212.4	13242.5	13175.6	13446.7	13771.4	14461.0	15441.8	15153.9	15053.5	13898.6	8716.8
42.5°	13286.0	13262.6	13262.6	13731.3	14223.3	15609.2	16958.2	16767.4	16690.4	15505.4	9982.1
45°	12968.0	12740.4	12984.8	13620.8	14611.6	16174.9	18170.0	18434.4	18324.0	17416.8	11461.7
47.5°	11779.7	11920.3	12057.5	12907.8	14139.6	16000.8	18913.1	19813.6	20017.8	19023.6	12432.4
50°	9982.1	9952.0	10236.5	11307.7	12804.0	15251.0	18769.2	20211.9	20583.5	19505.6	12636.6
52.5°	7260.6	7481.6	7789.5	8854.0	10628.2	13309.5	16911.3	19184.3	19679.7	18913.1	12502.7
55°	4227.8	3983.5	4676.4	5576.9	7250.6	10039.0	14297.0	17005.1	17922.3	17835.2	11826.5
57.5°	1693.8	1640.3	1877.9	2530.7	3782.6	6222.9	10397.2	13972.3	15441.8	16335.6	10393.8
60°	743.1	726.4	853.6	1031.0	1546.5	2868.8	5687.3	8690.0	10223.1	11414.8	7153.5
62.5°	535.6	528.9	592.5	656.1	816.8	1248.6	2390.1	3501.4	4365.1	5272.2	3203.5
65°	431.8	448.6	492.1	525.6	602.5	692.9	843.6	974.1	1195.0	1238.6	706.3
67.5°	351.5	364.9	405.0	441.9	455.3	374.9	388.3	341.4	341.4	304.6	244.4
70°	257.8	261.1	308.0	351.5	281.2	150.6	264.4	264.4	237.7	227.6	207.5
72.5°	190.8	194.2	231.0	217.6	110.5	93.7	194.2	214.2	194.2	184.1	167.4
75°	140.6	143.9	120.5	50.2	46.9	60.3	113.8	147.3	140.6	137.2	127.2
77.5°	26.8	20.1	16.7	23.4	33.5	50.2	73.6	90.4	93.7	100.4	93.7
80°	3.3	3.3	10.0	20.1	36.8	53.6	77.0	87.0	90.4	93.7	87.0
82.5°	0.0	3.3	10.0	20.1	36.8	50.2	66.9	77.0	83.7	87.0	83.7
85°	0.0	3.3	6.7	16.7	30.1	36.8	33.5	23.4	20.1	23.4	16.7
87.5°	0.0	0.0	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P530685

CATALOG NUMBER: GALN-SA5D-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2135.7	2122.3	2075.4	2025.2	1981.7	2001.8	1981.7	1965.0	1971.6	1965.0	1958.3
5°	2252.8	2192.6	2092.2	2048.6	2011.8	2008.5	1998.4	1995.1	1998.4	1998.4	1968.3
7.5°	2363.3	2266.2	2159.1	2112.2	2068.7	2072.1	2048.6	2048.6	2045.3	2028.6	2021.9
10°	2530.7	2400.1	2262.9	2179.2	2125.6	2115.6	2092.2	2068.7	2068.7	2068.7	2035.3
12.5°	2714.8	2550.8	2363.3	2266.2	2202.6	2152.4	2115.6	2108.9	2072.1	2065.4	2048.6
15°	2875.5	2667.9	2430.3	2296.4	2216.0	2149.1	2092.2	2055.3	2038.6	2028.6	2015.2
17.5°	3032.8	2768.3	2467.1	2296.4	2209.3	2132.3	2072.1	2038.6	1998.4	2005.1	1978.3
20°	3243.7	2875.5	2477.1	2252.8	2145.7	2072.1	1991.7	1975.0	1951.6	1931.5	1938.2
22.5°	3447.9	2952.5	2447.0	2199.3	2045.3	1958.3	1918.1	1898.0	1888.0	1871.2	1847.8
25°	3632.0	3036.1	2400.1	2102.2	1938.2	1874.6	1837.8	1834.4	1811.0	1811.0	1767.5
27.5°	3819.4	3066.3	2319.8	1988.4	1844.4	1807.6	1790.9	1784.2	1774.1	1750.7	1720.6
30°	4033.7	3076.3	2202.6	1871.2	1760.8	1720.6	1744.0	1760.8	1717.2	1673.7	1687.1
32.5°	4211.1	3052.9	2062.0	1760.8	1700.5	1680.4	1727.3	1744.0	1693.8	1646.9	1623.5
35°	4425.3	2996.0	1924.8	1673.7	1640.3	1680.4	1720.6	1720.6	1620.2	1563.3	1549.9
37.5°	4750.0	2932.4	1797.6	1600.1	1576.7	1660.3	1713.9	1677.1	1519.7	1449.4	1432.7
40°	5098.2	2892.2	1673.7	1526.4	1543.2	1626.9	1657.0	1543.2	1382.5	1339.0	1325.6
42.5°	5603.6	2811.9	1563.3	1462.8	1513.0	1580.0	1580.0	1375.8	1315.5	1292.1	1288.8
45°	6233.0	2755.0	1466.2	1409.3	1469.5	1486.3	1432.7	1288.8	1245.3	1238.6	1241.9
47.5°	6540.9	2644.5	1365.8	1345.7	1389.2	1392.5	1251.9	1218.5	1181.7	1171.6	1164.9
50°	6494.1	2447.0	1235.2	1262.0	1322.2	1288.8	1141.5	1148.2	1114.7	1111.4	1094.6
52.5°	6166.0	2135.7	1104.7	1168.3	1235.2	1138.1	1051.1	1044.4	1044.4	1000.9	984.2
55°	5466.4	1720.6	947.3	1027.7	1108.0	957.4	933.9	927.2	910.5	870.3	860.3
57.5°	4328.3	1262.0	713.0	800.0	940.6	813.4	810.1	780.0	736.4	706.3	706.3
60°	2574.2	726.4	448.6	488.7	622.6	659.4	733.1	719.7	646.1	599.2	585.8
62.5°	1175.0	374.9	284.5	291.2	334.7	428.5	575.8	666.1	562.4	482.0	475.3
65°	395.0	277.8	234.3	224.3	231.0	257.8	344.8	472.0	448.6	371.6	358.2
67.5°	241.0	247.7	220.9	204.2	204.2	200.8	197.5	214.2	264.4	257.8	261.1
70°	207.5	227.6	204.2	184.1	177.4	167.4	140.6	117.2	100.4	117.2	123.9
72.5°	167.4	180.8	174.1	157.3	140.6	127.2	100.4	77.0	56.9	50.2	50.2
75°	123.9	133.9	140.6	120.5	107.1	90.4	73.6	50.2	30.1	20.1	20.1
77.5°	90.4	100.4	103.8	93.7	80.3	63.6	46.9	33.5	16.7	6.7	6.7
80°	77.0	90.4	100.4	93.7	83.7	60.3	43.5	23.4	13.4	3.3	3.3
82.5°	73.6	90.4	100.4	90.4	80.3	56.9	43.5	26.8	10.0	3.3	3.3
85°	16.7	23.4	30.1	36.8	43.5	43.5	33.5	20.1	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	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)