

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: P531625

Luminaire Tested: **GALN-SA6D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22170 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 368
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

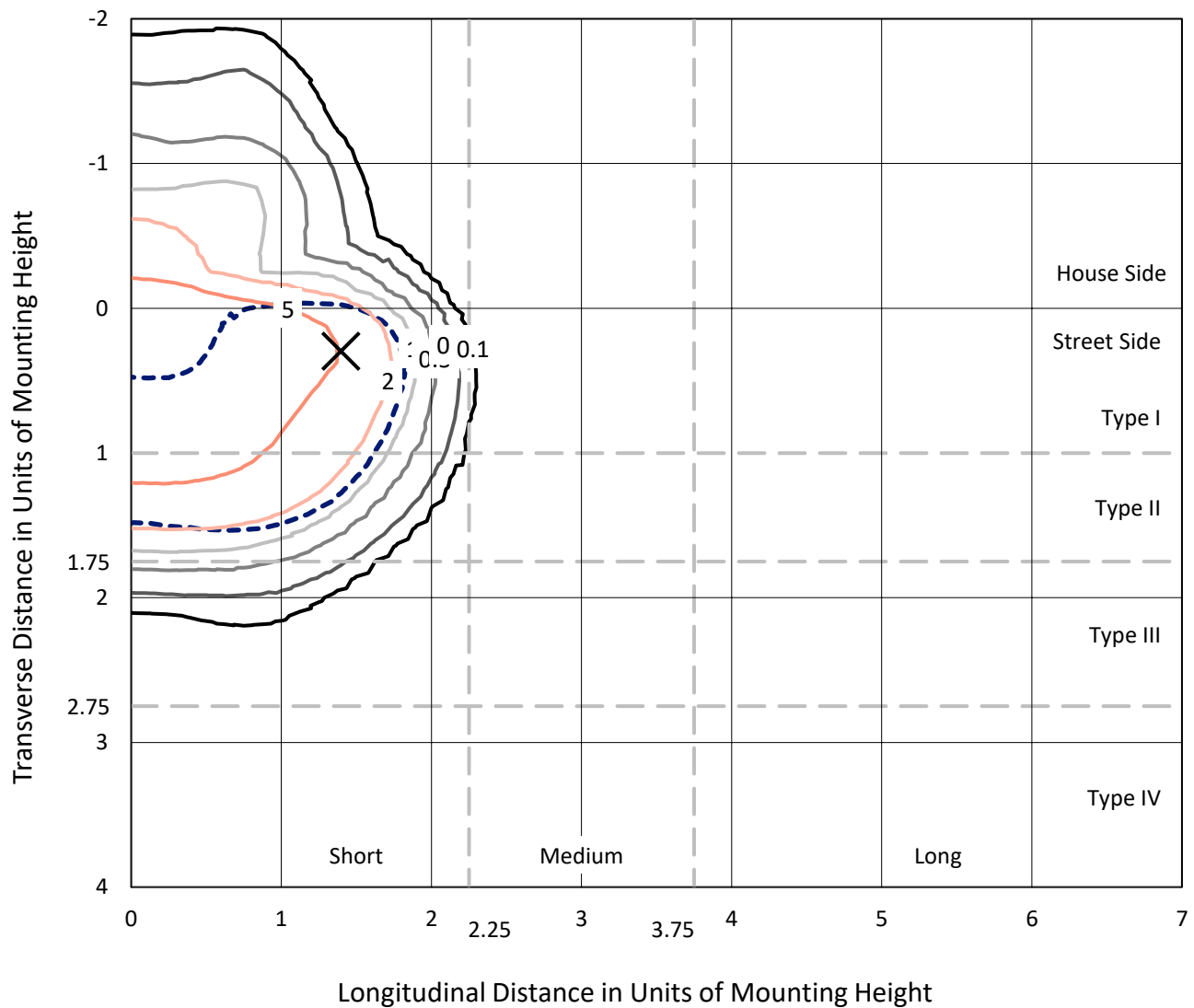


REPORT NUMBER: P531625

CATALOG NUMBER: GALN-SA6D-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

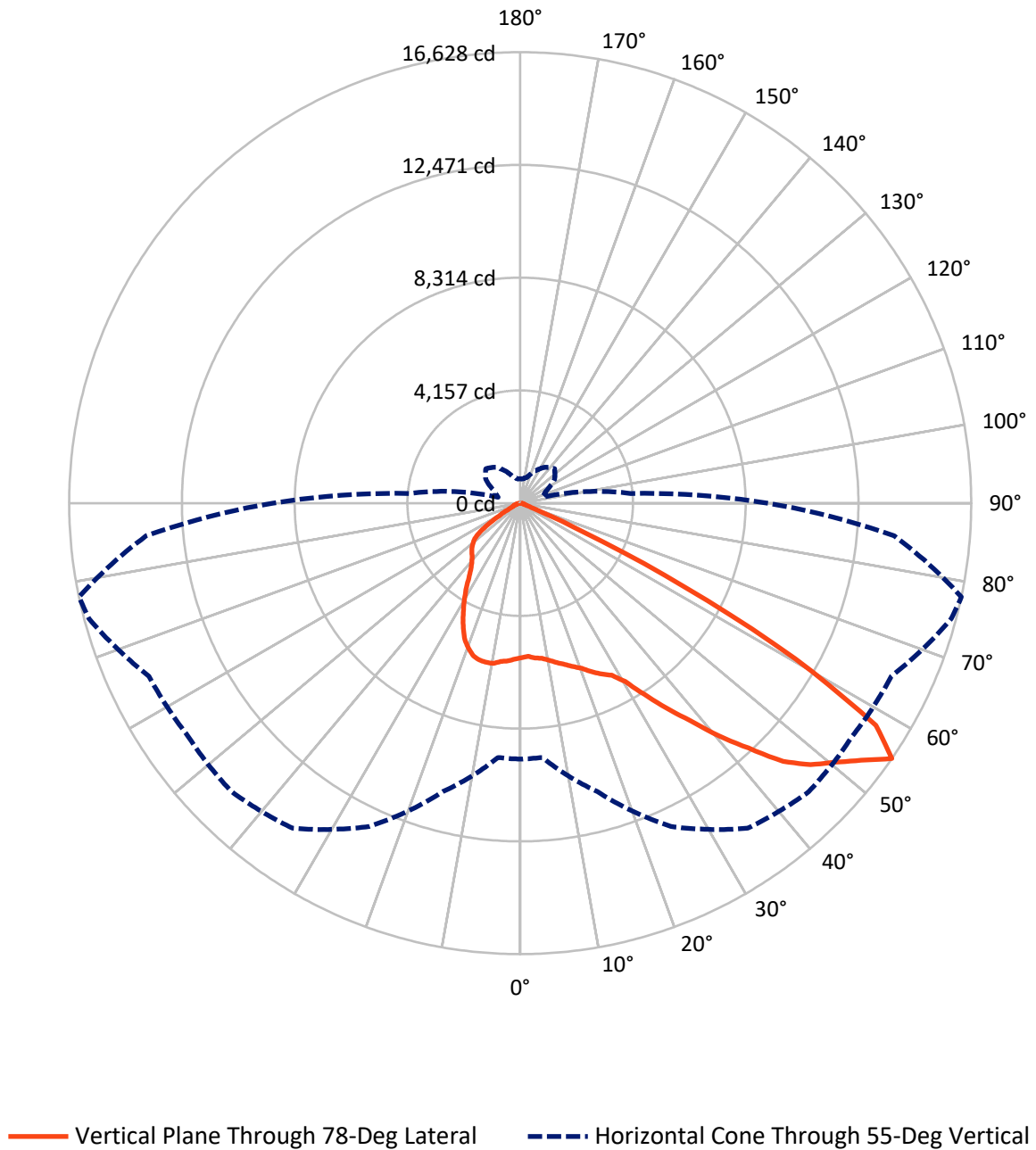


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P531625

CATALOG NUMBER: GALN-SA6D-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531625

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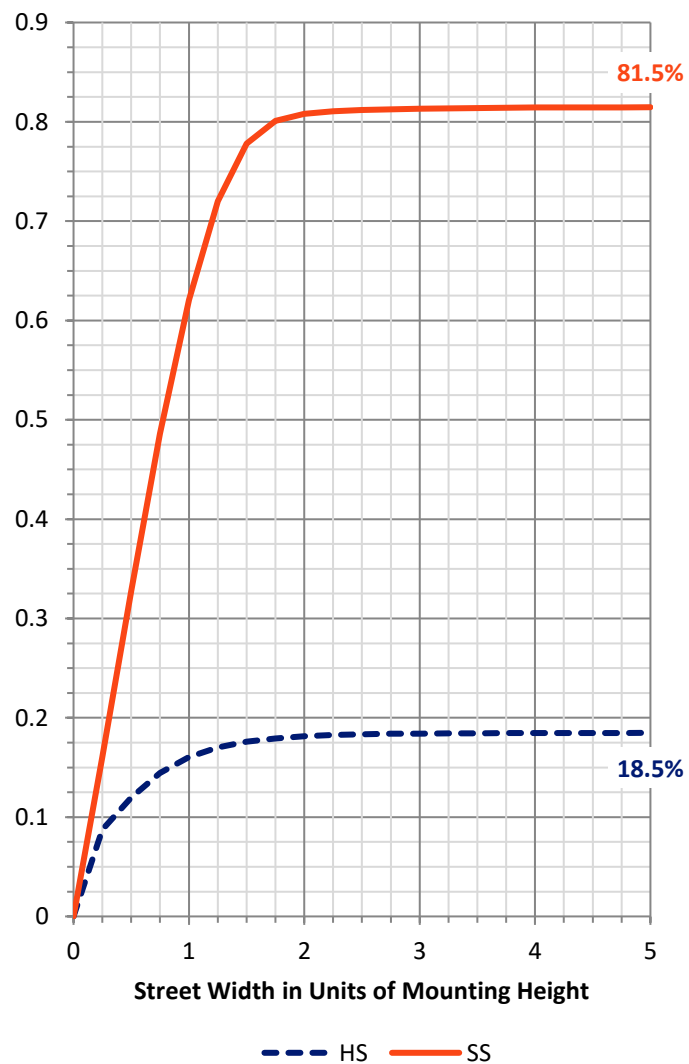
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4117.8	0.0	4117.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18052.2	0.0	18052.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	22170.0	0.0	22170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	2.3
10°-20°	1345.1	6.1
20°-30°	2357.7	10.6
30°-40°	3887.6	17.5
40°-50°	5656.9	25.5
50°-60°	6409.9	28.9
60°-70°	1832.7	8.3
70°-80°	142.3	0.6
80°-90°	29.6	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°	22170.0	100.0
0°-180°	22170.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531625

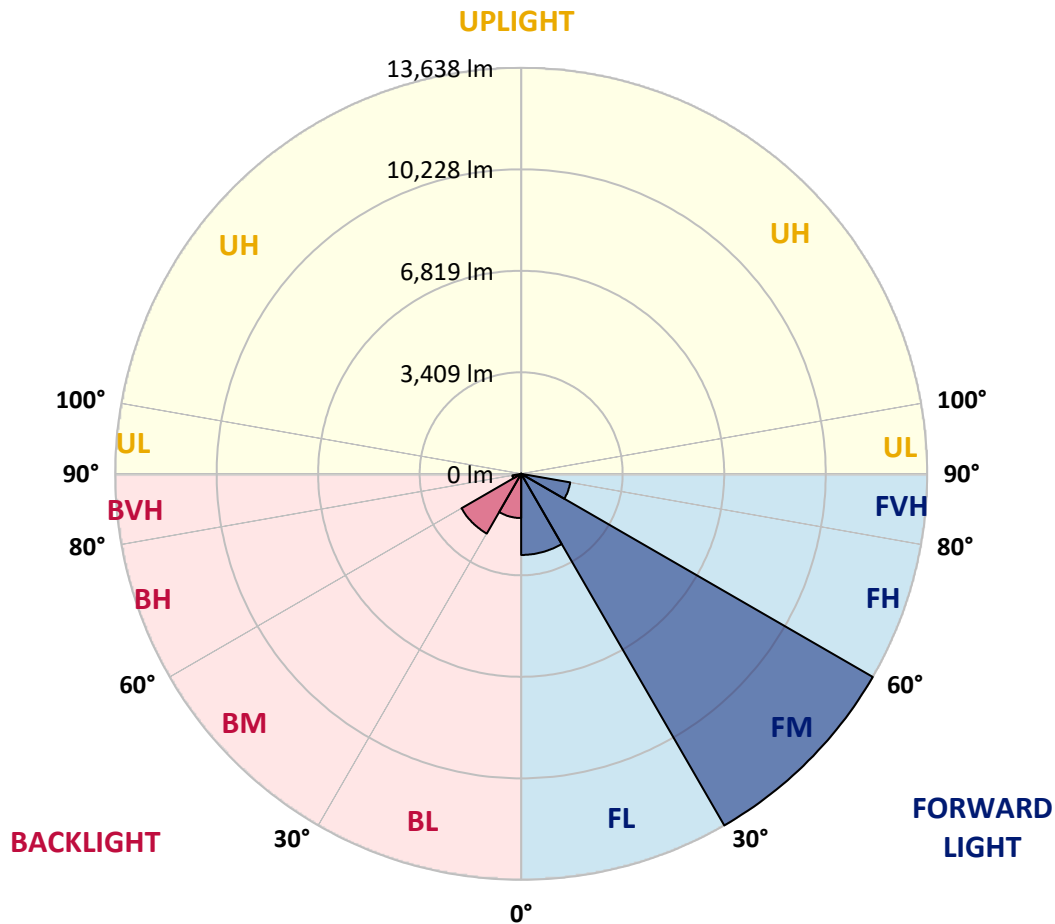
CATALOG NUMBER: GALN-SA6D-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2725.3	12.3			
FM	(30°-60°)	13638.0	61.5			
FH	(60°-80°)	1674.4	7.6			G1/1800
FVH	(80°-90°)	14.4	0.1			G1/100
BL	(0°-30°)	1485.7	6.7	B3/2500		
BM	(30°-60°)	2316.3	10.4	B2/2500		
BH	(60°-80°)	300.6	1.4	B1/500		G1/500
BVH	(80°-90°)	15.2	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-G1

Type II Short



REPORT NUMBER: P531625

CATALOG NUMBER: GALN-SA6D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5359.0	5410.6	5418.5	5481.9	5477.9	5585.0	5616.7	5620.6	5692.0	5656.3	5747.5
5°	5208.4	5180.7	5168.8	5279.8	5311.5	5406.6	5485.9	5533.4	5680.1	5731.6	5826.8
7.5°	5073.6	5073.6	5081.6	5180.7	5168.8	5291.7	5374.9	5521.5	5735.6	5779.2	5894.1
10°	4942.8	4895.3	4954.7	5057.8	5145.0	5200.5	5374.9	5513.6	5763.3	5890.2	6048.7
12.5°	4875.5	4899.2	4907.2	4982.5	5077.6	5244.1	5339.2	5569.1	5961.5	6036.8	6207.3
15°	5299.6	5252.0	5137.1	5069.7	5149.0	5228.2	5466.1	5699.9	6064.6	6171.6	6361.9
17.5°	5791.1	5751.4	5656.3	5474.0	5295.6	5442.3	5628.6	5842.6	6175.6	6334.1	6615.6
20°	6433.2	6369.8	6274.7	5917.9	5763.3	5604.8	5803.0	6056.7	6357.9	6500.6	6790.0
22.5°	7198.2	7198.2	6984.2	6552.1	6231.1	6080.4	6163.7	6310.3	6560.1	6754.3	7039.7
25°	7995.0	7971.2	7776.9	7329.0	6786.0	6607.6	6702.8	6805.8	6873.2	6980.2	7170.5
27.5°	8906.6	8767.9	8522.1	8026.7	7547.0	7202.2	7305.3	7214.1	7130.8	7186.3	7459.8
30°	9525.0	9612.2	9299.0	8823.4	8371.5	7987.0	8006.8	7927.6	7547.0	7626.3	7788.8
32.5°	10167.1	10222.6	10048.2	9786.6	9334.7	8886.8	8724.3	8656.9	8371.5	8407.2	8248.6
35°	10702.2	10809.2	10654.6	10539.7	10408.9	10048.2	9600.3	9818.3	9358.5	9271.3	8859.1
37.5°	11193.7	11162.0	11344.3	11225.4	11197.7	10944.0	10452.5	10496.1	10186.9	10167.1	9691.4
40°	11633.7	11641.6	11891.3	11946.8	11835.9	11384.0	10670.5	11015.4	11265.1	11288.9	10678.4
42.5°	11998.4	12105.4	12319.4	12767.3	12600.9	11847.7	10896.4	11273.0	12200.5	12347.2	11613.9
45°	12315.5	12533.5	12799.1	13199.4	13104.3	12505.7	11459.3	11804.1	13199.4	13583.9	12493.8
47.5°	12335.3	12620.7	12910.0	13504.6	13623.5	12858.5	12042.0	12644.5	13992.2	14408.4	13136.0
50°	12256.0	12406.6	12985.4	13631.4	13901.0	13433.3	12858.5	13350.0	14761.1	15022.7	13461.0
52.5°	11316.6	11431.6	12592.9	13750.4	14400.4	14083.3	13940.6	14333.0	15546.0	15740.2	13766.2
55°	9433.8	9414.0	11011.4	13151.8	14630.3	15046.5	14959.3	15098.0	16453.7	16628.1	13841.5
57.5°	6453.0	6813.7	8193.1	10951.9	13223.2	14820.6	14911.8	14681.9	15395.3	15462.7	12065.8
60°	3480.2	3630.8	4740.7	7309.2	10068.0	12077.6	12315.5	11899.3	11843.8	11653.5	8613.3
62.5°	1383.4	1458.7	2088.9	3618.9	5485.9	7340.9	7852.3	7681.8	7317.1	6817.7	4459.3
65°	658.0	705.6	1038.5	1692.5	2433.8	3060.0	3571.4	3729.9	2750.9	2477.4	1470.6
67.5°	447.9	483.6	757.1	967.2	868.1	907.7	1181.2	1098.0	646.1	551.0	408.3
70°	340.9	364.7	606.5	658.0	388.5	273.5	305.2	285.4	265.6	269.5	265.6
72.5°	241.8	261.6	443.9	388.5	170.4	126.8	162.5	194.2	194.2	194.2	190.3
75°	146.7	166.5	257.6	150.6	67.4	67.4	103.1	130.8	138.7	142.7	134.8
77.5°	75.3	95.1	87.2	43.6	43.6	51.5	75.3	91.2	99.1	99.1	95.1
80°	15.9	15.9	15.9	23.8	43.6	55.5	75.3	83.2	95.1	95.1	87.2
82.5°	0.0	4.0	11.9	23.8	39.6	51.5	71.3	83.2	95.1	99.1	91.2
85°	0.0	4.0	7.9	15.9	27.7	31.7	27.7	23.8	23.8	23.8	23.8
87.5°	0.0	0.0	4.0	4.0	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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: P531625

CATALOG NUMBER: GALN-SA6D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5755.4	5767.3	5747.5	5743.5	5727.7	5775.2	5660.3	5632.5	5703.9	5636.5	5652.4
5°	5830.7	5858.5	5822.8	5763.3	5676.1	5541.4	5426.4	5275.8	5204.4	5152.9	5145.0
7.5°	5886.2	5906.0	5870.4	5680.1	5418.5	5077.6	4823.9	4637.6	4491.0	4447.4	4376.0
10°	6112.2	6116.1	5937.7	5517.6	5006.3	4558.4	4169.9	3884.5	3737.8	3646.7	3607.0
12.5°	6262.8	6254.8	5894.1	5196.5	4514.7	3920.2	3476.2	3131.4	2996.6	2953.0	2925.3
15°	6453.0	6409.4	5791.1	4867.5	3880.5	3238.4	2838.1	2600.2	2588.4	2560.6	2588.4
17.5°	6603.7	6480.8	5640.5	4269.0	3274.1	2667.6	2406.0	2421.9	2453.6	2481.3	2485.3
20°	6849.4	6595.7	5295.6	3745.8	2711.2	2287.1	2283.1	2354.5	2433.8	2465.5	2497.2
22.5°	7035.7	6643.3	4927.0	3186.9	2251.4	2132.5	2199.9	2306.9	2366.4	2398.1	2445.7
25°	7103.1	6512.5	4435.5	2628.0	2029.5	2061.2	2164.2	2235.6	2310.9	2346.6	2326.7
27.5°	7170.5	6445.1	3848.8	2164.2	1910.5	2013.6	2100.8	2172.2	2195.9	2243.5	2275.2
30°	7333.0	6211.2	3321.7	1870.9	1851.1	1981.9	2045.3	2069.1	2132.5	2160.3	2160.3
32.5°	7463.8	6120.1	2762.8	1732.2	1843.2	1997.7	2005.7	2005.7	2013.6	1993.8	1985.9
35°	7733.3	5806.9	2263.3	1648.9	1839.2	2001.7	2021.5	1954.1	1771.8	1700.5	1680.6
37.5°	8066.3	5604.8	1894.7	1629.1	1866.9	2049.3	2081.0	1827.3	1589.5	1474.5	1454.7
40°	8470.6	5462.1	1652.9	1621.2	1930.4	2160.3	2065.1	1728.2	1419.0	1252.6	1244.6
42.5°	8942.3	5331.3	1490.4	1617.2	2009.6	2275.2	2049.3	1645.0	1244.6	1133.6	1149.5
45°	9318.9	5259.9	1379.4	1589.5	2037.4	2342.6	2061.2	1498.3	1173.3	1101.9	1109.9
47.5°	9612.2	5109.3	1288.2	1541.9	2033.4	2366.4	1954.1	1438.9	1137.6	1157.4	1177.2
50°	9620.1	4907.2	1173.3	1438.9	1974.0	2322.8	1831.3	1383.4	1129.7	1212.9	1252.6
52.5°	9513.1	4621.8	1050.4	1292.2	1835.2	2172.2	1720.3	1359.6	1094.0	1086.1	1133.6
55°	9132.6	4086.7	844.3	1046.4	1549.8	1791.6	1621.2	1316.0	987.0	895.8	903.7
57.5°	7380.6	2929.2	622.3	749.2	1098.0	1312.0	1462.6	1296.2	887.9	761.0	765.0
60°	4570.2	1660.8	455.8	511.3	677.8	796.7	1185.2	1205.0	792.8	642.1	634.2
62.5°	2346.6	820.5	352.8	360.7	416.2	467.7	812.6	1010.8	717.4	610.4	610.4
65°	784.8	404.3	309.2	277.5	277.5	289.4	491.5	701.6	606.5	511.3	511.3
67.5°	336.9	301.2	269.5	241.8	222.0	210.1	277.5	408.3	451.9	388.5	372.6
70°	261.6	253.7	233.9	202.2	174.4	158.6	162.5	210.1	257.6	249.7	241.8
72.5°	194.2	194.2	186.3	158.6	134.8	114.9	107.0	111.0	122.9	126.8	130.8
75°	134.8	138.7	138.7	122.9	99.1	83.2	71.3	59.5	47.6	39.6	35.7
77.5°	91.2	95.1	103.1	91.2	75.3	55.5	43.6	31.7	19.8	7.9	7.9
80°	79.3	91.2	99.1	91.2	79.3	59.5	43.6	23.8	11.9	0.0	0.0
82.5°	83.2	91.2	103.1	87.2	75.3	55.5	43.6	27.7	11.9	4.0	0.0
85°	19.8	19.8	23.8	27.7	35.7	39.6	31.7	19.8	11.9	4.0	0.0
87.5°	7.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	0.0	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)