

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: P531495

Luminaire Tested: **GALN-SA6D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531495
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-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 25989 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

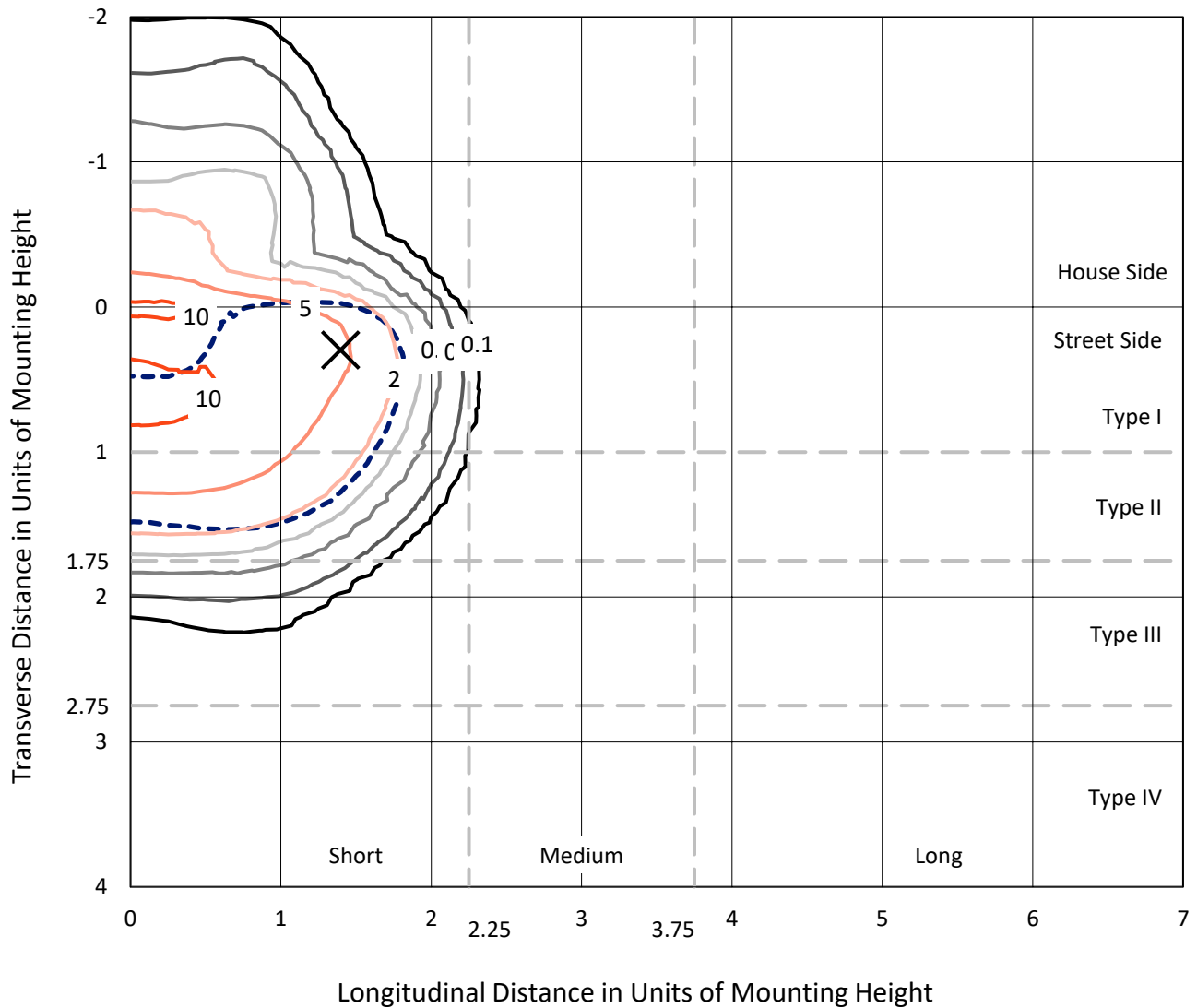
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

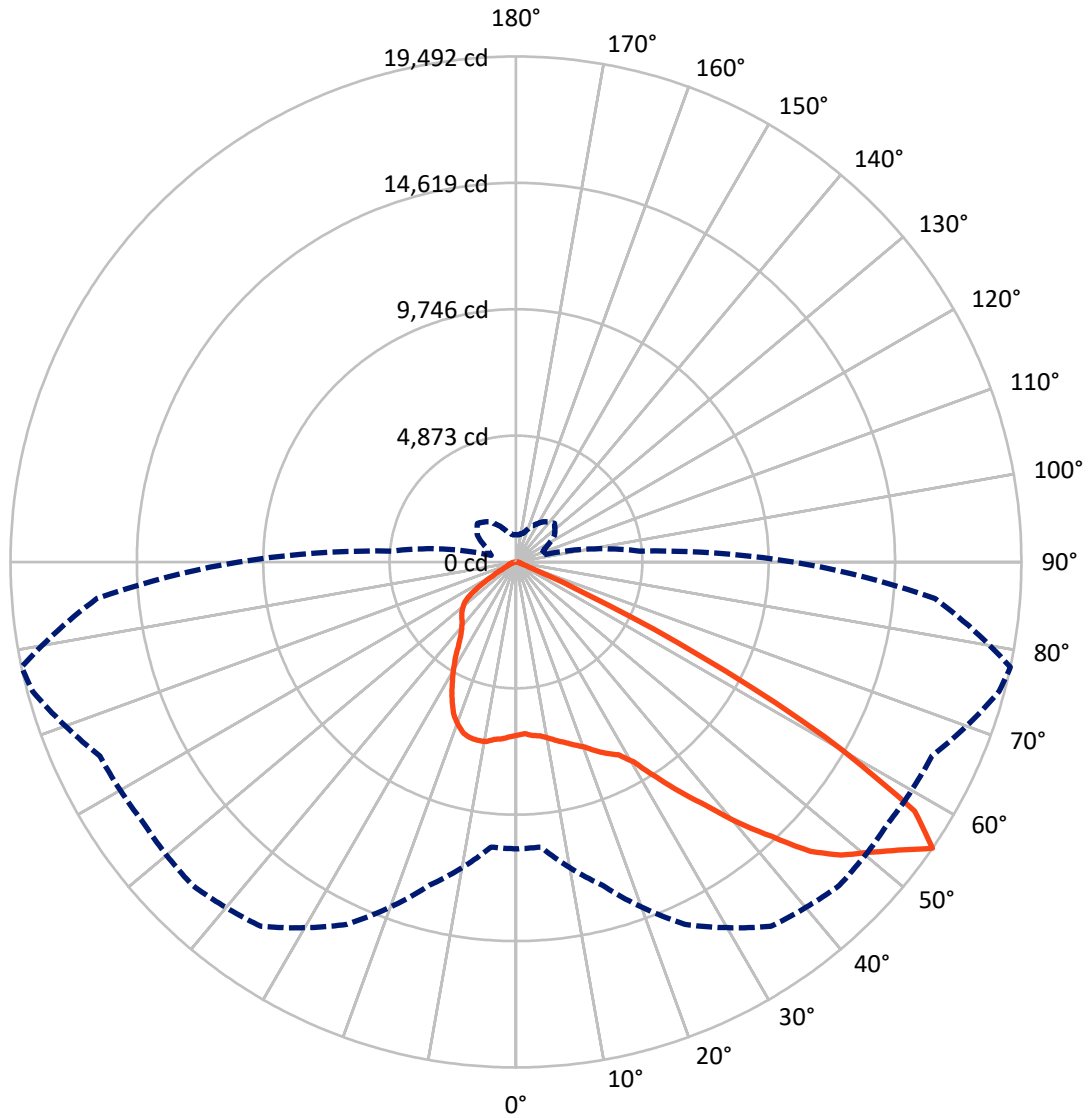
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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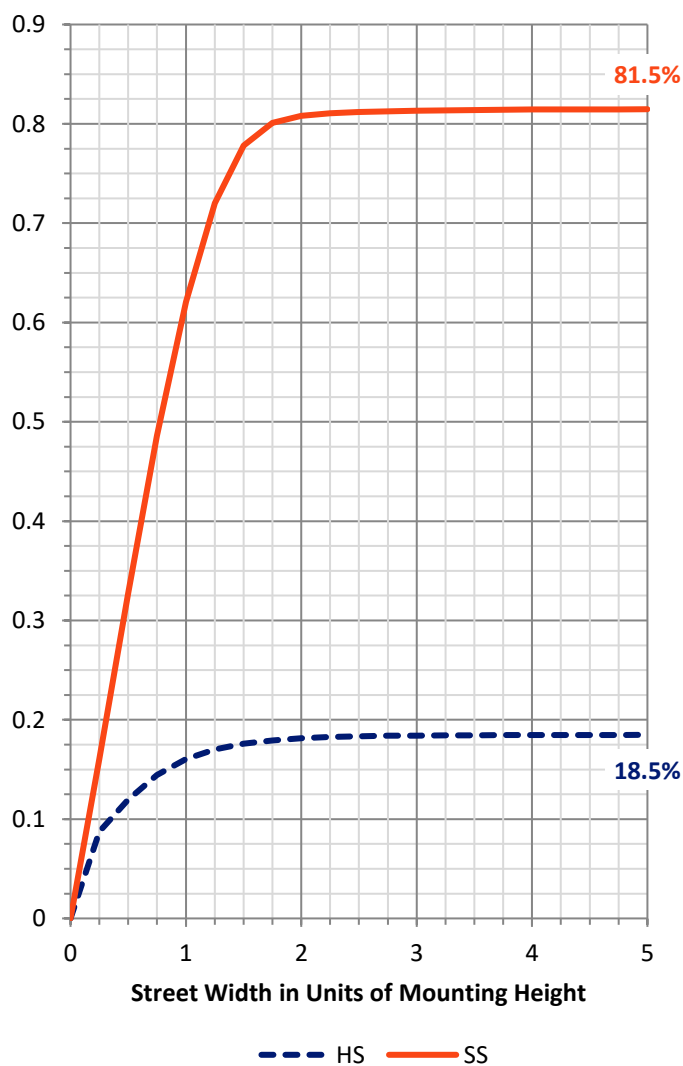
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4827.2	0.0	4827.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21161.8	0.0	21161.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	25989.0	0.0	25989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.8	2.3
10°-20°	1576.8	6.1
20°-30°	2763.9	10.6
30°-40°	4557.2	17.5
40°-50°	6631.4	25.5
50°-60°	7514.0	28.9
60°-70°	2148.4	8.3
70°-80°	166.8	0.6
80°-90°	34.7	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°	25989.0	100.0
0°-180°	25989.0	100.0

Coefficient of Utilization



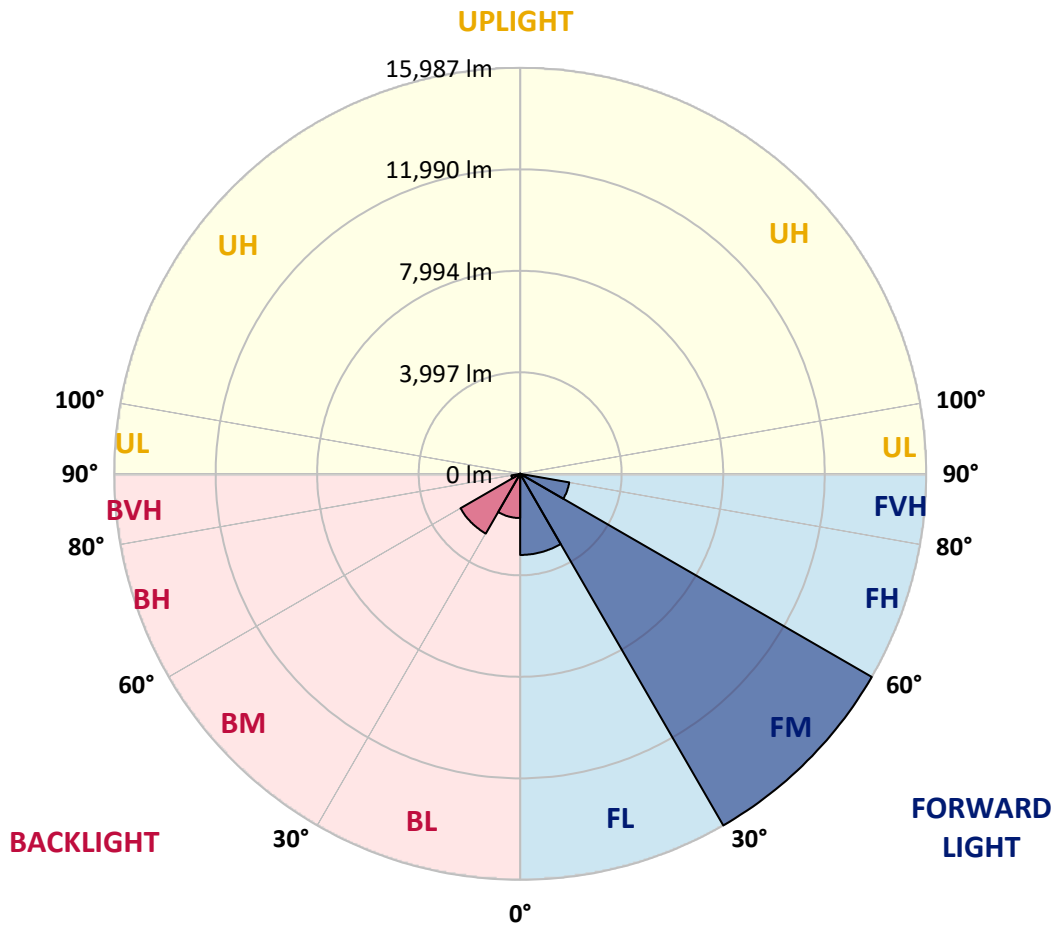
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.8	12.3			
FM (30°-60°)	15987.3	61.5			
FH (60°-80°)	1962.9	7.6			G2/5000
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1741.7	6.7	B3/2500		
BM (30°-60°)	2715.4	10.4	B3/5000		
BH (60°-80°)	352.4	1.4	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8
2.5°	6282.2	6342.6	6351.9	6426.2	6421.6	6547.0	6584.2	6588.9	6672.5	6630.7	6737.5
5°	6105.6	6073.1	6059.1	6189.2	6226.4	6337.9	6430.9	6486.6	6658.6	6719.0	6830.5
7.5°	5947.6	5947.6	5956.9	6073.1	6059.1	6203.2	6300.8	6472.7	6723.6	6774.7	6909.5
10°	5794.3	5738.5	5808.2	5929.0	6031.3	6096.3	6300.8	6463.4	6756.1	6904.8	7090.7
12.5°	5715.3	5743.2	5752.5	5840.8	5952.3	6147.4	6258.9	6528.4	6988.5	7076.7	7276.5
15°	6212.5	6156.7	6022.0	5943.0	6035.9	6128.8	6407.6	6681.8	7109.3	7234.7	7457.8
17.5°	6788.7	6742.2	6630.7	6416.9	6207.8	6379.8	6598.1	6849.1	7239.4	7425.2	7755.1
20°	7541.4	7467.1	7355.5	6937.3	6756.1	6570.3	6802.6	7100.0	7453.1	7620.4	7959.6
22.5°	8438.2	8438.2	8187.3	7680.8	7304.4	7127.9	7225.4	7397.4	7690.1	7917.8	8252.3
25°	9372.2	9344.3	9116.6	8591.5	7955.0	7745.9	7857.4	7978.2	8057.2	8182.6	8405.7
27.5°	10440.9	10278.2	9990.2	9409.3	8847.1	8442.8	8563.7	8456.8	8359.2	8424.3	8744.9
30°	11165.7	11268.0	10900.9	10343.3	9813.6	9362.9	9386.1	9293.2	8847.1	8940.0	9130.5
32.5°	11918.5	11983.5	11779.1	11472.4	10942.7	10417.6	10227.1	10148.1	9813.6	9855.4	9669.5
35°	12545.8	12671.2	12490.0	12355.3	12201.9	11779.1	11254.0	11509.6	10970.6	10868.4	10385.1
37.5°	13122.0	13084.8	13298.5	13159.1	13126.6	12829.2	12253.0	12304.2	11941.7	11918.5	11360.9
40°	13637.7	13647.0	13939.8	14004.8	13874.7	13345.0	12508.6	12912.9	13205.6	13233.5	12517.9
42.5°	14065.2	14190.7	14441.6	14966.6	14771.5	13888.6	12773.5	13214.9	14302.2	14474.1	13614.5
45°	14436.9	14692.5	15003.8	15473.1	15361.6	14660.0	13433.3	13837.5	15473.1	15923.8	14646.0
47.5°	14460.2	14794.7	15133.9	15830.9	15970.3	15073.5	14116.3	14822.6	16402.4	16890.3	15398.8
50°	14367.2	14543.8	15222.2	15979.6	16295.6	15747.3	15073.5	15649.7	17303.9	17610.6	15779.8
52.5°	13266.0	13400.7	14762.2	16119.0	16881.0	16509.3	16342.0	16802.0	18223.9	18451.6	16137.6
55°	11058.9	11035.6	12908.2	15417.4	17150.5	17638.4	17536.2	17698.8	19288.0	19492.4	16225.9
57.5°	7564.6	7987.5	9604.5	12838.5	15501.0	17373.6	17480.4	17210.9	18047.3	18126.3	14144.2
60°	4079.7	4256.3	5557.3	8568.3	11802.3	14158.1	14436.9	13949.0	13884.0	13661.0	10097.0
62.5°	1621.7	1709.9	2448.7	4242.3	6430.9	8605.5	9204.9	9005.1	8577.6	7992.1	5227.4
65°	771.3	827.1	1217.4	1984.1	2853.0	3587.2	4186.6	4372.4	3224.7	2904.1	1723.9
67.5°	525.1	566.9	887.5	1133.8	1017.6	1064.1	1384.7	1287.1	757.4	645.9	478.6
70°	399.6	427.5	710.9	771.3	455.4	320.6	357.8	334.6	311.3	316.0	311.3
72.5°	283.4	306.7	520.4	455.4	199.8	148.7	190.5	227.7	227.7	227.7	223.0
75°	171.9	195.2	302.0	176.6	79.0	79.0	120.8	153.3	162.6	167.3	158.0
77.5°	88.3	111.5	102.2	51.1	51.1	60.4	88.3	106.9	116.2	116.2	111.5
80°	18.6	18.6	18.6	27.9	51.1	65.1	88.3	97.6	111.5	111.5	102.2
82.5°	0.0	4.6	13.9	27.9	46.5	60.4	83.6	97.6	111.5	116.2	106.9
85°	0.0	4.6	9.3	18.6	32.5	37.2	32.5	27.9	27.9	27.9	27.9
87.5°	0.0	0.0	4.6	4.6	4.6	9.3	9.3	9.3	9.3	9.3	9.3
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°	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8	6681.8
2.5°	6746.8	6760.8	6737.5	6732.9	6714.3	6770.1	6635.3	6602.8	6686.4	6607.4	6626.0
5°	6835.1	6867.7	6825.8	6756.1	6653.9	6495.9	6361.2	6184.6	6101.0	6040.6	6031.3
7.5°	6900.2	6923.4	6881.6	6658.6	6351.9	5952.3	5654.9	5436.5	5264.6	5213.5	5129.8
10°	7165.0	7169.7	6960.6	6468.0	5868.6	5343.6	4888.2	4553.7	4381.7	4274.9	4228.4
12.5°	7341.6	7332.3	6909.5	6091.7	5292.5	4595.5	4075.1	3670.8	3512.8	3461.7	3429.2
15°	7564.6	7513.5	6788.7	5706.0	4549.0	3796.3	3327.0	3048.2	3034.2	3001.7	3034.2
17.5°	7741.2	7597.2	6612.1	5004.4	3838.1	3127.2	2820.5	2839.1	2876.2	2908.8	2913.4
20°	8029.3	7731.9	6207.8	4391.0	3178.3	2681.1	2676.4	2760.1	2853.0	2890.2	2927.3
22.5°	8247.7	7787.7	5775.7	3735.9	2639.3	2499.9	2578.9	2704.3	2774.0	2811.2	2866.9
25°	8326.7	7634.3	5199.5	3080.7	2379.1	2416.2	2537.0	2620.7	2709.0	2750.8	2727.5
27.5°	8405.7	7555.3	4511.8	2537.0	2239.7	2360.5	2462.7	2546.3	2574.2	2630.0	2667.1
30°	8596.2	7281.2	3893.8	2193.2	2170.0	2323.3	2397.6	2425.5	2499.9	2532.4	2532.4
32.5°	8749.5	7174.3	3238.7	2030.6	2160.7	2341.9	2351.2	2351.2	2360.5	2337.2	2327.9
35°	9065.5	6807.2	2653.2	1933.0	2156.0	2346.5	2369.8	2290.8	2077.0	1993.4	1970.2
37.5°	9455.8	6570.3	2221.1	1909.7	2188.5	2402.3	2439.5	2142.1	1863.3	1728.5	1705.3
40°	9929.7	6403.0	1937.6	1900.5	2262.9	2532.4	2420.9	2025.9	1663.5	1468.3	1459.0
42.5°	10482.7	6249.7	1747.1	1895.8	2355.8	2667.1	2402.3	1928.3	1459.0	1328.9	1347.5
45°	10924.1	6166.0	1617.0	1863.3	2388.3	2746.1	2416.2	1756.4	1375.4	1291.8	1301.0
47.5°	11268.0	5989.4	1510.1	1807.5	2383.7	2774.0	2290.8	1686.7	1333.6	1356.8	1380.0
50°	11277.3	5752.5	1375.4	1686.7	2314.0	2722.9	2146.7	1621.7	1324.3	1421.9	1468.3
52.5°	11151.8	5417.9	1231.3	1514.8	2151.4	2546.3	2016.6	1593.8	1282.5	1273.2	1328.9
55°	10705.7	4790.6	989.7	1226.7	1816.8	2100.3	1900.5	1542.7	1157.0	1050.1	1059.4
57.5°	8651.9	3433.8	729.5	878.2	1287.1	1538.0	1714.6	1519.4	1040.8	892.1	896.8
60°	5357.5	1946.9	534.4	599.4	794.6	934.0	1389.3	1412.6	929.3	752.7	743.5
62.5°	2750.8	961.8	413.5	422.8	487.9	548.3	952.5	1184.9	841.0	715.6	715.6
65°	920.0	474.0	362.4	325.3	325.3	339.2	576.2	822.4	710.9	599.4	599.4
67.5°	395.0	353.1	316.0	283.4	260.2	246.3	325.3	478.6	529.7	455.4	436.8
70°	306.7	297.4	274.1	237.0	204.4	185.9	190.5	246.3	302.0	292.7	283.4
72.5°	227.7	227.7	218.4	185.9	158.0	134.8	125.5	130.1	144.0	148.7	153.3
75°	158.0	162.6	162.6	144.0	116.2	97.6	83.6	69.7	55.8	46.5	41.8
77.5°	106.9	111.5	120.8	106.9	88.3	65.1	51.1	37.2	23.2	9.3	9.3
80°	92.9	106.9	116.2	106.9	92.9	69.7	51.1	27.9	13.9	0.0	0.0
82.5°	97.6	106.9	120.8	102.2	88.3	65.1	51.1	32.5	13.9	4.6	0.0
85°	23.2	23.2	27.9	32.5	41.8	46.5	37.2	23.2	13.9	4.6	0.0
87.5°	9.3	9.3	9.3	9.3	9.3	4.6	4.6	4.6	4.6	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)