

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: P383505

Luminaire Tested: **GLEON-SA8A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33060.6 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

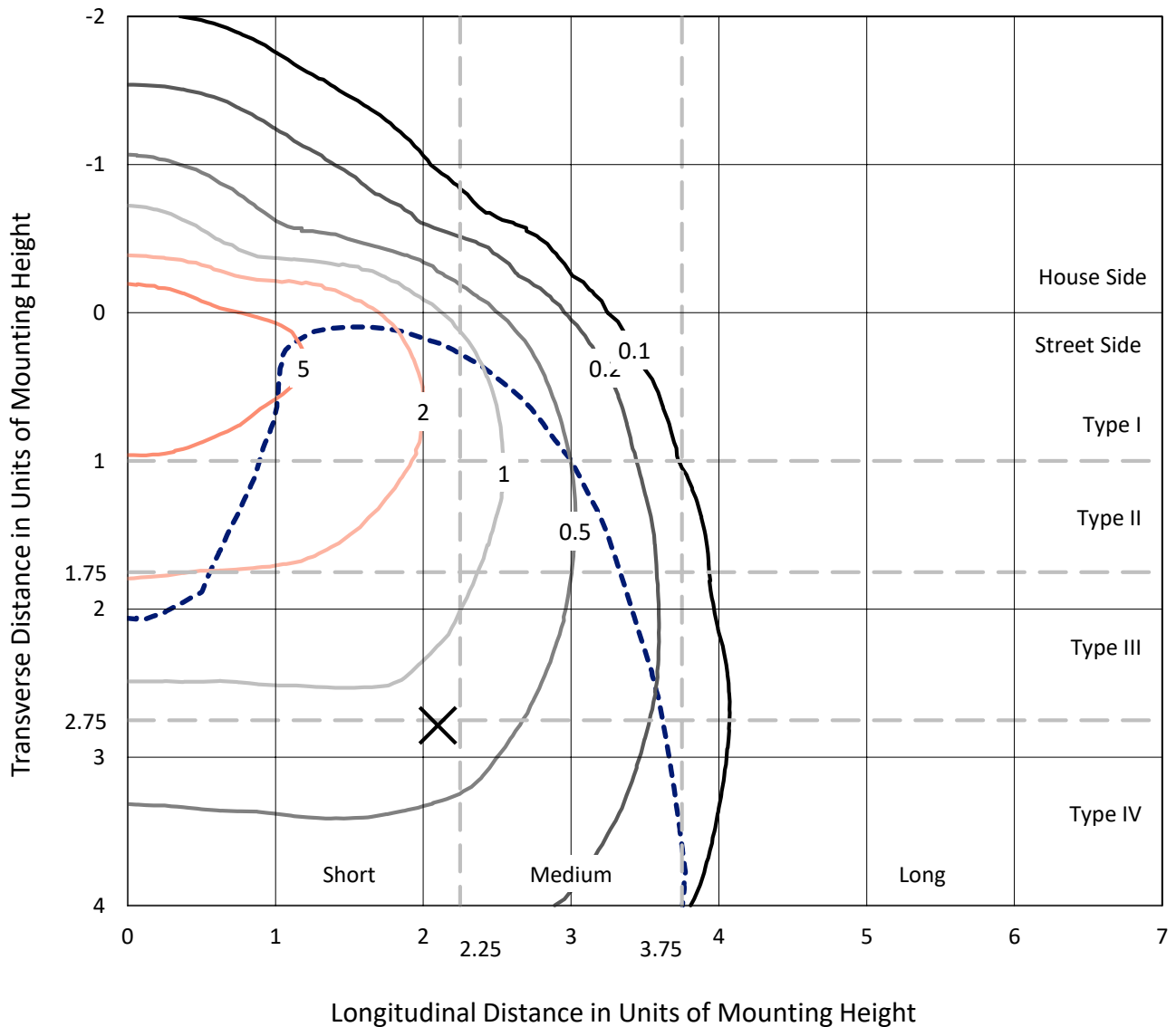
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

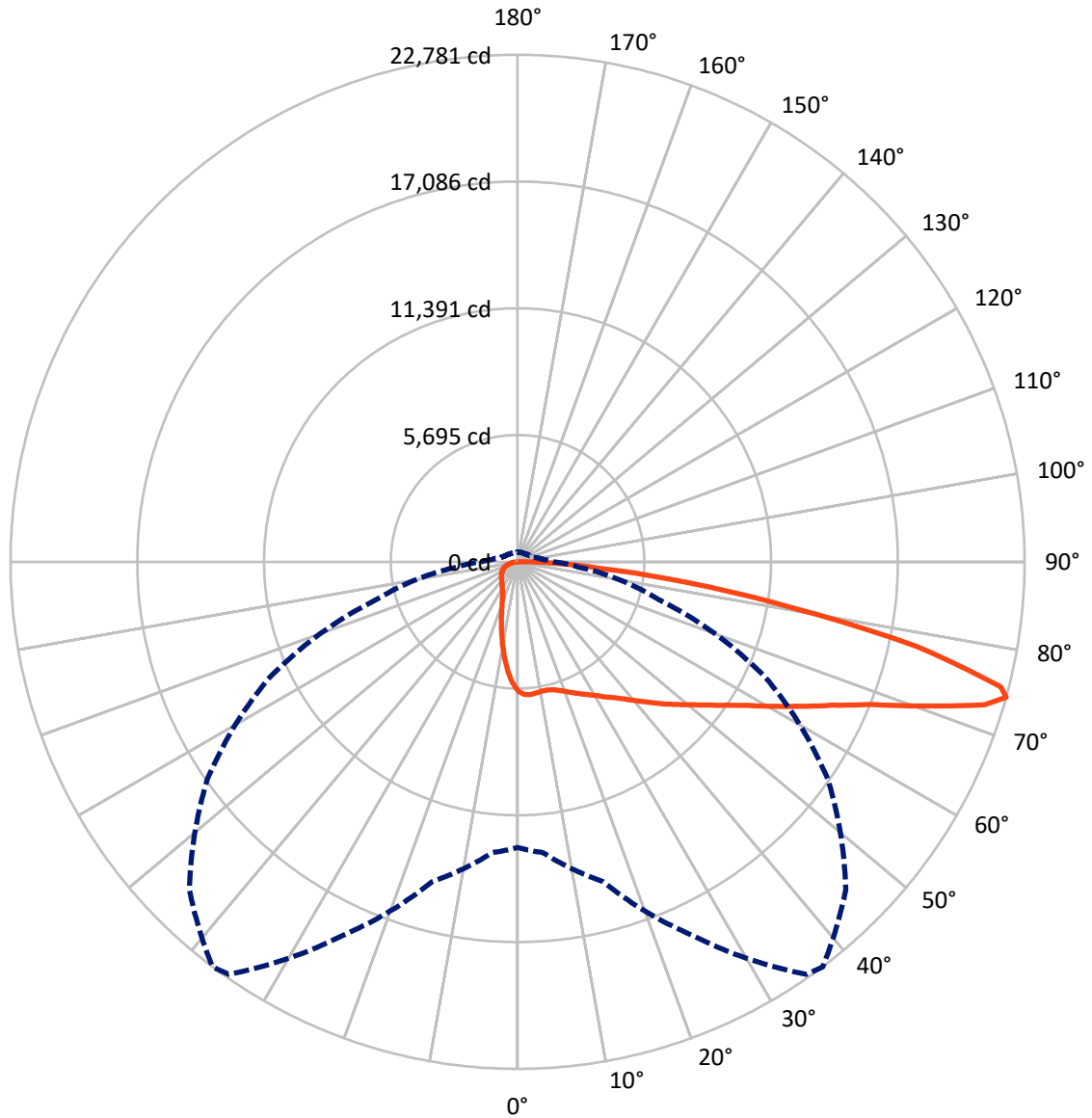
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4548.9	0.0	4548.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28511.7	0.0	28511.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	33060.6	0.0	33060.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.0	1.6
10°-20°	1314.9	4.0
20°-30°	2026.0	6.1
30°-40°	2946.1	8.9
40°-50°	4336.1	13.1
50°-60°	6089.3	18.4
60°-70°	7707.1	23.3
70°-80°	6786.4	20.5
80°-90°	1341.8	4.1
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°	33060.6	100.0
0°-180°	33060.6	100.0

Coefficient of Utilization

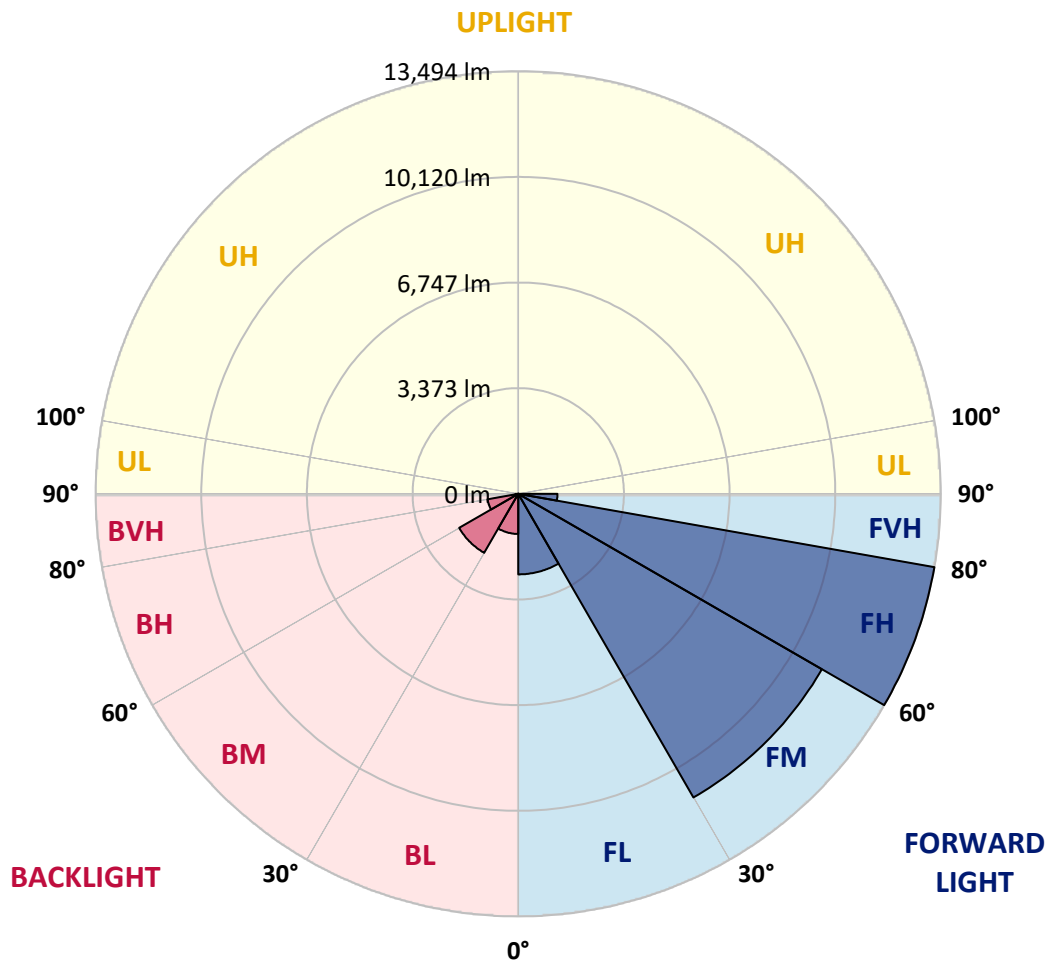


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.5	7.8			
FM (30°-60°)	11194.6	33.9			
FH (60°-80°)	13493.7	40.8			G5
FVH (80°-90°)	1251.0	3.8			G5
BL (0°-30°)	1281.3	3.9	B3/2500		
BM (30°-60°)	2176.8	6.6	B2/2500		
BH (60°-80°)	999.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	90.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2
2.5°	6024.3	6025.4	6024.3	6015.0	5992.8	5974.2	5959.1	5936.9	5888.0	5850.8	5794.9
5°	6081.3	6074.3	6069.7	6052.3	6017.3	5996.4	5967.2	5925.3	5845.0	5770.4	5679.6
7.5°	6054.6	6046.4	6036.0	6015.0	5975.4	5957.9	5917.2	5862.4	5765.7	5667.9	5537.5
10°	5971.9	5969.5	5964.9	5960.2	5926.5	5912.5	5875.3	5817.0	5721.5	5602.7	5450.2
12.5°	5879.9	5885.7	5904.3	5928.8	5913.7	5906.7	5883.4	5843.8	5746.0	5617.9	5433.9
15°	5821.7	5838.0	5888.0	5952.1	5964.9	5962.6	5956.8	5931.2	5827.5	5685.4	5471.2
17.5°	5801.9	5828.7	5924.2	6030.1	6067.4	6075.6	6077.9	6033.6	5918.3	5768.0	5509.5
20°	5838.0	5871.7	6011.5	6157.1	6216.4	6221.1	6210.6	6133.8	6004.5	5839.1	5530.5
22.5°	5947.5	5977.7	6152.4	6316.6	6384.2	6391.2	6359.7	6243.2	6095.3	5923.0	5559.7
25°	6158.2	6195.4	6370.2	6534.3	6569.3	6570.5	6525.0	6380.6	6214.1	6040.6	5622.5
27.5°	6433.1	6470.3	6627.5	6788.3	6769.6	6759.1	6697.5	6553.0	6369.0	6202.4	5734.3
30°	6739.4	6780.1	6929.1	7043.2	6999.0	6978.0	6928.0	6741.7	6584.5	6423.8	5905.5
32.5°	7056.1	7093.4	7223.8	7301.8	7245.9	7236.6	7160.9	6990.9	6865.1	6761.5	6182.7
35°	7381.0	7407.8	7535.9	7580.2	7505.7	7503.3	7482.3	7326.2	7247.1	7296.0	6585.6
37.5°	7712.9	7719.9	7829.4	7831.7	7809.5	7818.9	7841.0	7743.2	7765.3	7917.9	7109.7
40°	8008.7	8027.3	8106.5	8131.0	8169.4	8202.0	8312.7	8248.6	8419.8	8689.9	7761.8
42.5°	8227.6	8263.8	8390.7	8453.6	8578.2	8629.4	8785.5	8844.9	9189.6	9594.8	8537.4
45°	8412.8	8468.7	8672.5	8801.8	9012.5	9102.2	9325.8	9525.0	10059.5	10576.6	9353.8
47.5°	8613.1	8684.2	8939.2	9186.1	9472.5	9573.9	9980.3	10278.4	10987.7	11564.1	10123.6
50°	8907.7	8962.5	9211.7	9599.5	9957.0	10087.4	10649.9	11077.3	11931.0	12505.1	10790.9
52.5°	9318.8	9297.9	9508.7	10052.5	10532.4	10693.0	11365.0	11927.4	12887.0	13356.4	11354.5
55°	9732.3	9697.3	9845.2	10526.5	11203.1	11372.0	12152.2	12781.1	13796.6	14122.6	11786.6
57.5°	10192.2	10125.9	10250.5	11061.0	11967.0	12168.5	13033.8	13688.3	14691.0	14742.2	12061.4
60°	10666.2	10576.6	10716.3	11723.7	12937.1	13174.7	14065.6	14573.4	15534.1	15238.3	12149.9
62.5°	11080.9	11018.0	11233.4	12463.2	14030.7	14291.5	15078.8	15514.4	16365.6	15444.5	11830.8
65°	11443.0	11453.5	11826.2	13294.7	15250.0	15528.3	16241.1	16674.2	17020.1	15322.2	11084.3
67.5°	11875.1	11934.4	12570.3	14389.3	16784.9	17090.0	17932.0	17939.0	17385.8	14604.8	9614.7
70°	12505.1	12627.4	13594.0	15907.9	18967.2	19386.5	20036.4	18681.9	16872.2	12660.0	7565.0
72.5°	13064.1	13292.3	14682.9	17645.5	21627.2	21945.0	21267.3	18253.4	14725.9	9487.7	4713.0
74°	12837.0	13120.0	14880.8	18501.5	22628.7	22781.2	20851.6	17002.6	12278.0	6570.5	2739.0
75°	12347.8	12655.4	14592.0	18493.3	22501.7	22416.7	19847.6	15573.7	10111.9	4481.2	1822.6
77.5°	9965.1	10290.1	12295.5	15849.7	18450.2	18369.8	15246.5	10447.3	4428.9	1469.7	925.9
80°	5793.7	6041.7	7632.5	10065.4	12441.0	12586.6	10026.9	5169.5	1742.2	825.6	627.7
82.5°	2573.7	2744.9	3687.0	5138.0	7508.0	7695.4	5251.0	2708.8	1076.0	501.9	377.3
85°	1688.6	1815.6	2238.3	2446.7	3575.2	3703.3	2570.2	2109.0	710.4	276.0	277.1
87.5°	1214.6	1337.0	1663.0	1452.2	1640.8	1553.5	1398.6	1951.8	285.3	157.2	93.2
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°	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2	5825.2
2.5°	5770.4	5751.7	5709.8	5630.6	5586.4	5549.1	5487.5	5451.3	5435.0	5433.9	5440.9
5°	5627.2	5584.1	5475.8	5343.0	5237.1	5140.4	5020.5	4948.2	4897.0	4866.7	4874.9
7.5°	5460.6	5393.1	5223.1	5011.2	4841.1	4653.6	4468.4	4357.8	4271.6	4207.6	4219.3
10°	5346.5	5253.4	5005.3	4700.2	4417.2	4144.6	3889.7	3737.1	3616.0	3522.8	3529.8
12.5°	5308.1	5182.3	4838.7	4431.2	4034.1	3661.4	3328.3	3094.2	2969.7	2863.7	2871.8
15°	5313.9	5145.0	4699.0	4189.0	3689.3	3220.0	2815.9	2542.3	2373.4	2300.0	2301.2
17.5°	5318.6	5102.0	4552.3	3929.3	3348.2	2807.8	2368.7	2091.6	1932.0	1864.5	1865.6
20°	5303.4	5032.1	4370.6	3631.1	2991.8	2429.3	2004.2	1769.0	1647.8	1595.5	1595.5
22.5°	5283.6	4949.4	4165.7	3331.9	2640.1	2100.9	1743.4	1564.0	1494.1	1459.2	1458.1
25°	5293.0	4887.6	3956.0	3024.4	2316.3	1838.9	1569.8	1451.1	1404.5	1382.3	1381.2
27.5°	5343.0	4858.6	3762.7	2718.1	2033.3	1642.0	1453.4	1369.6	1339.3	1325.3	1325.3
30°	5433.9	4858.6	3561.2	2457.2	1798.1	1496.4	1363.7	1306.7	1285.7	1276.4	1276.4
32.5°	5592.3	4885.3	3366.8	2198.7	1610.6	1382.3	1289.2	1250.8	1234.4	1229.7	1229.7
35°	5864.7	4976.1	3176.9	1954.1	1459.2	1289.2	1218.1	1196.0	1184.4	1183.2	1186.7
37.5°	6247.9	5161.3	2998.7	1773.7	1352.0	1213.4	1158.8	1141.2	1134.3	1140.1	1144.8
40°	6730.1	5412.9	2836.8	1610.6	1270.5	1152.9	1104.0	1092.3	1088.9	1097.0	1104.0
42.5°	7312.3	5753.0	2704.1	1493.0	1207.7	1101.6	1057.4	1043.4	1040.0	1049.3	1058.6
45°	7942.4	6118.6	2610.9	1405.6	1158.8	1063.3	1016.7	1001.5	994.5	999.2	1009.7
47.5°	8515.3	6464.5	2573.7	1343.9	1112.2	1030.7	980.5	961.9	950.3	947.9	956.1
50°	8998.6	6721.9	2591.2	1306.7	1074.9	994.5	945.6	924.7	907.2	896.7	902.6
52.5°	9350.3	6883.8	2607.5	1290.4	1045.8	954.9	907.2	887.4	864.1	846.7	846.7
55°	9605.4	6921.0	2571.4	1277.5	1023.7	911.9	864.1	845.5	822.2	802.3	800.0
57.5°	9705.5	6816.2	2437.4	1258.9	1008.5	871.1	818.6	804.7	784.9	761.6	760.4
60°	9570.4	6492.4	2178.9	1219.3	988.7	837.4	773.3	764.0	754.6	732.5	731.4
62.5°	9027.7	5782.0	1844.7	1138.9	949.2	801.2	731.4	736.0	737.1	722.0	719.7
65°	8043.6	4806.1	1518.6	1034.1	889.7	758.1	688.2	710.4	723.2	720.8	717.4
67.5°	6613.5	3740.5	1286.8	923.5	811.7	698.8	641.6	667.3	677.8	685.9	683.6
70°	4908.6	2637.8	1064.4	807.0	717.4	628.9	581.1	594.0	587.0	596.3	599.7
72.5°	2736.7	1582.6	867.6	690.6	619.6	547.4	513.6	511.2	496.1	496.1	496.1
74°	1642.0	1161.1	762.8	618.4	560.1	493.8	464.7	454.2	440.2	441.4	440.2
75°	1320.7	998.1	699.9	570.7	518.2	462.3	433.3	419.3	408.8	408.8	407.6
77.5°	833.8	758.1	563.7	454.2	414.5	380.8	361.0	342.3	342.3	341.2	340.0
80°	630.0	603.3	439.0	343.6	317.9	292.3	279.5	271.4	271.4	274.8	273.7
82.5°	432.1	454.2	308.6	239.9	227.1	208.5	206.2	207.3	203.8	199.2	198.0
85°	315.6	341.2	208.5	151.4	138.6	127.0	136.3	140.9	135.1	124.6	120.0
87.5°	121.1	223.6	111.8	62.9	58.2	50.1	58.2	60.6	65.2	51.2	52.4
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)