

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: P193697

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28612 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

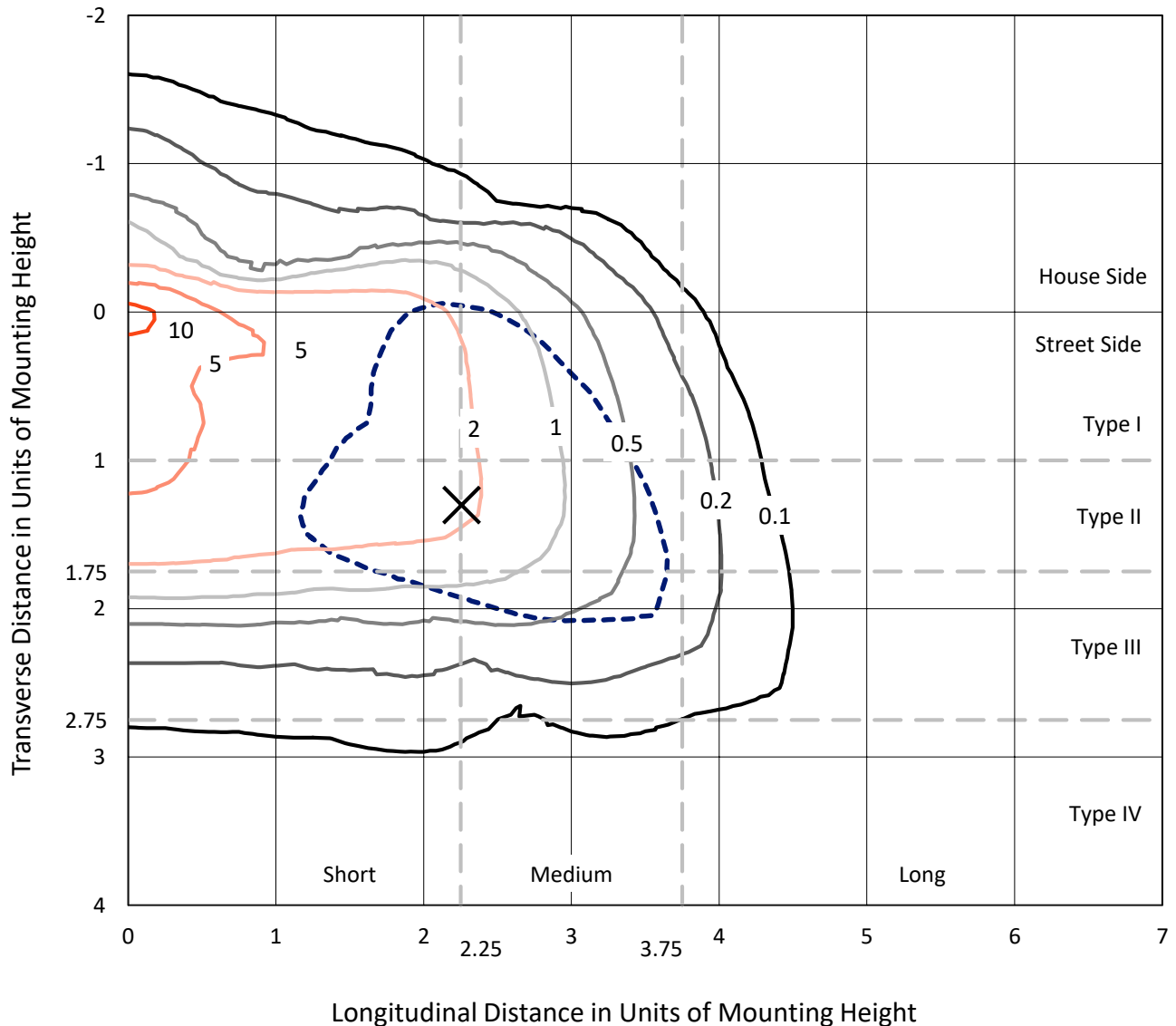
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

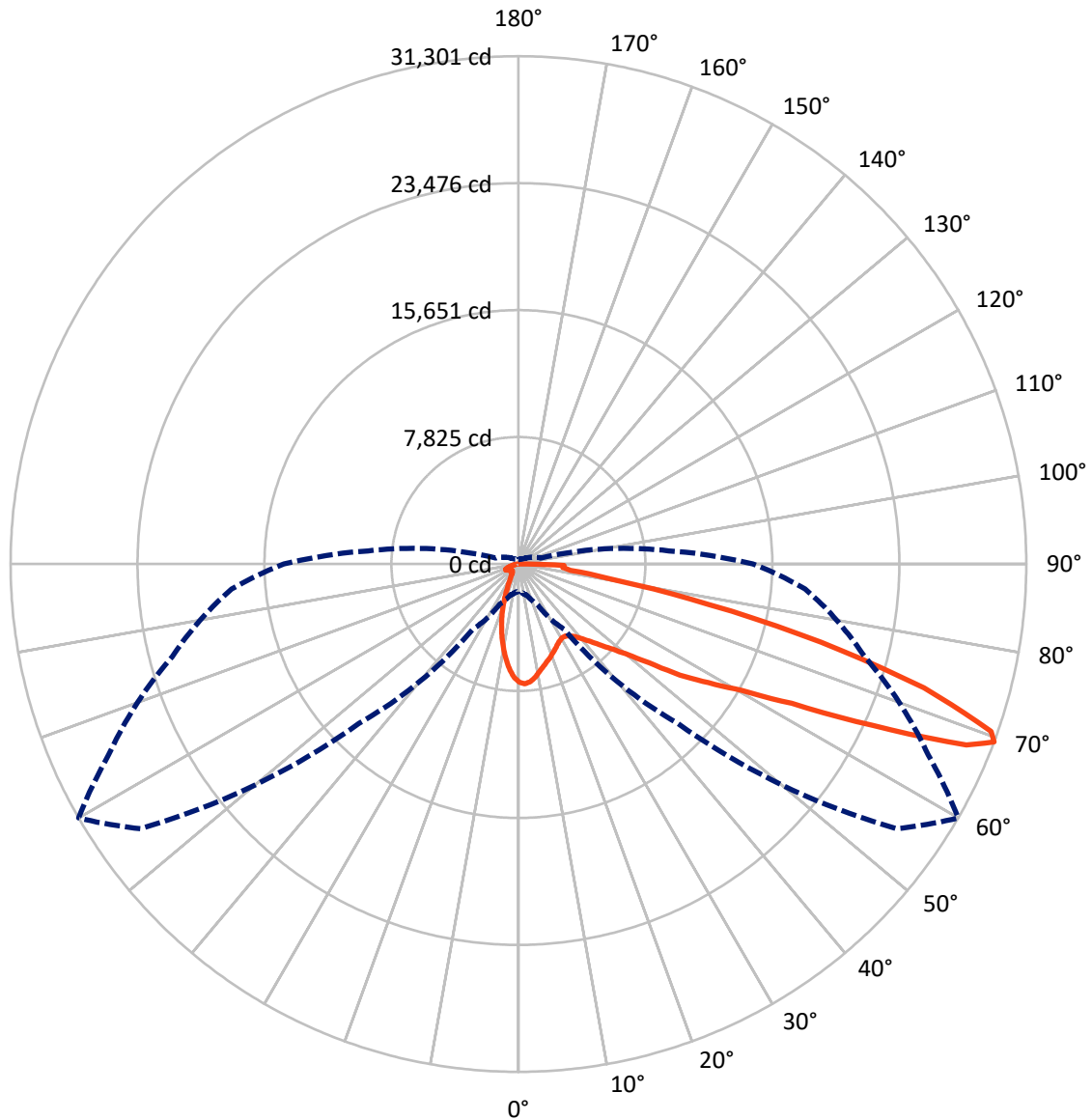
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4070.6	0.0	4070.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24541.4	0.0	24541.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	28612.0	0.0	28612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.5	2.2
10°-20°	1313.4	4.6
20°-30°	1673.5	5.8
30°-40°	2300.7	8.0
40°-50°	3733.0	13.0
50°-60°	5986.9	20.9
60°-70°	7968.1	27.8
70°-80°	4302.1	15.0
80°-90°	717.8	2.5
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°	28612.0	100.0
0°-180°	28612.0	100.0



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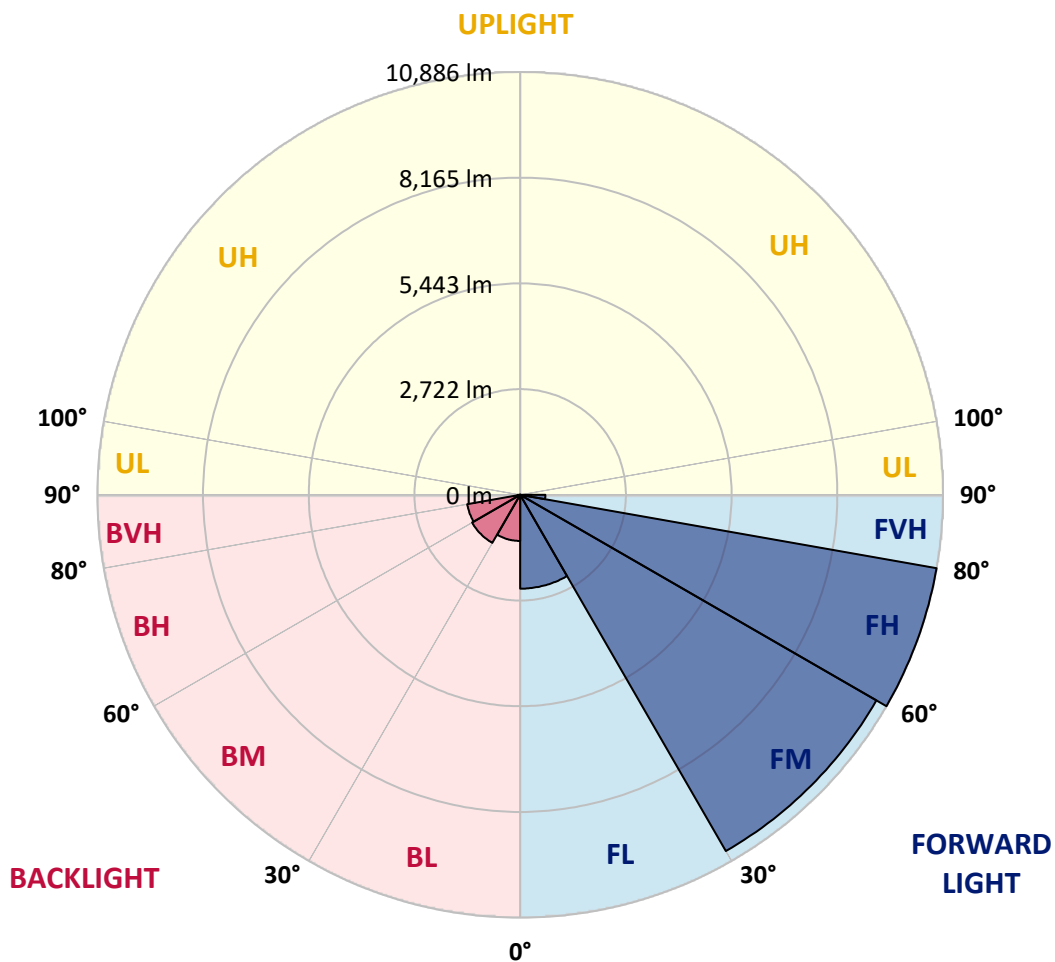
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.9	8.4			
FM (30°-60°)	10590.5	37.0			
FH (60°-80°)	10886.3	38.0			G4/12000
FVH (80°-90°)	648.7	2.3			G4/750
BL (0°-30°)	1187.5	4.2	B3/2500		
BM (30°-60°)	1430.1	5.0	B2/2500		
BH (60°-80°)	1383.9	4.8	B3/2500		G3/2500
BVH (80°-90°)	69.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8
2.5°	7440.0	7456.6	7449.7	7445.6	7458.0	7438.7	7398.6	7386.1	7366.8	7321.2	7243.8
5°	7160.9	7210.6	7207.8	7245.2	7307.4	7323.9	7306.0	7308.7	7272.8	7216.1	7087.6
7.5°	6678.5	6699.2	6710.3	6791.8	6905.2	6996.4	7073.8	7098.7	7082.1	7033.7	6867.8
10°	6180.9	6197.5	6223.8	6319.1	6462.9	6588.6	6735.2	6819.5	6855.4	6847.1	6661.9
12.5°	5753.8	5770.4	5805.0	5912.8	6084.2	6239.0	6451.8	6556.9	6642.5	6693.7	6494.7
15°	5371.0	5406.9	5440.1	5564.5	5756.6	5959.8	6200.3	6333.0	6465.6	6580.4	6346.8
17.5°	5072.4	5108.4	5127.7	5241.1	5445.6	5694.4	5976.4	6132.5	6298.4	6486.4	6200.3
20°	4899.7	4916.3	4908.0	4971.5	5155.4	5419.4	5753.8	5934.9	6135.3	6397.9	6053.8
22.5°	4851.3	4852.7	4822.3	4815.4	4934.2	5156.8	5516.1	5735.9	5981.9	6339.9	5928.0
25°	4968.8	4964.6	4881.7	4814.0	4826.4	4956.3	5286.7	5542.4	5853.3	6327.4	5831.2
27.5°	5230.0	5242.4	5119.4	4992.3	4866.5	4862.4	5112.5	5382.0	5748.3	6384.1	5789.8
30°	5596.3	5617.0	5485.7	5324.0	5087.6	4892.8	5044.8	5286.7	5683.3	6501.6	5782.9
32.5°	5997.1	6019.2	5919.7	5749.7	5440.1	5080.7	5091.8	5295.0	5680.6	6666.0	5829.9
35°	6424.2	6449.1	6397.9	6254.2	5910.0	5427.7	5271.5	5429.0	5770.4	6917.6	5955.6
37.5°	6901.0	6939.7	6953.5	6816.7	6449.1	5885.1	5565.9	5683.3	5973.6	7267.3	6186.4
40°	7587.9	7641.8	7637.7	7441.4	7066.9	6503.0	6020.6	6051.0	6290.1	7734.4	6555.5
42.5°	8903.7	8914.8	8570.6	8143.6	7746.9	7152.6	6556.9	6532.0	6726.9	8326.0	7098.7
45°	10577.5	10531.9	9766.2	8941.0	8457.3	7898.9	7254.8	7133.2	7281.1	9047.5	7778.7
47.5°	11966.5	11861.5	10894.0	9755.1	9209.2	8710.2	8074.4	7861.6	7943.1	9865.7	8657.7
50°	12448.9	12370.1	11568.5	10432.4	9921.0	9699.8	9083.4	8782.1	8804.2	10841.5	9687.4
52.5°	12345.2	12334.2	11799.3	10878.8	10587.2	10739.2	10512.5	10104.8	9889.2	11925.1	10798.6
55°	12100.6	12124.1	11930.6	11398.5	11348.7	11742.6	12379.8	12078.5	11408.2	13018.3	11947.2
57.5°	11250.6	11311.4	11737.1	12052.2	12574.7	13160.7	13883.6	13797.9	13043.2	14200.1	13312.7
60°	9064.1	9205.0	10346.7	11925.1	13836.6	15669.3	15992.7	15793.7	14729.4	15666.5	15116.4
62.5°	6350.9	6497.4	7854.7	10324.6	13629.3	18502.7	19763.2	18904.9	17150.9	17826.8	17450.9
65°	3400.1	3470.5	4507.1	7163.6	11506.3	19087.3	25273.8	23967.6	20985.0	20490.2	19448.0
67.5°	1875.6	1914.3	2310.9	3617.1	7369.6	16808.2	28784.4	29771.2	25776.9	22263.5	19084.5
69°	1695.9	1731.8	1991.7	2739.4	4931.5	13897.4	28441.6	31301.3	27877.7	22087.9	17741.1
70°	1658.6	1691.7	1925.3	2525.2	3991.6	11455.2	27293.1	30910.1	28378.0	21459.1	16569.1
72.5°	1492.7	1528.6	1755.3	2268.1	3411.1	5711.0	21619.4	26134.8	25764.4	18606.3	12567.8
75°	1391.8	1425.0	1809.2	2221.1	3266.0	3614.3	14252.6	19261.5	18939.4	13015.6	6776.6
77.5°	595.7	592.9	839.0	1879.7	3314.4	3499.6	7658.4	12032.9	10978.3	5563.1	1946.0
80°	398.1	391.1	398.1	552.9	3039.3	3518.9	4012.3	6107.7	4613.6	1418.1	959.2
82.5°	342.8	337.2	349.7	337.2	1068.4	4016.5	3411.1	3248.0	2193.5	805.8	475.5
85°	230.8	221.1	301.3	302.7	504.5	3568.7	3842.3	2743.5	1774.7	478.2	235.0
87.5°	110.6	107.8	175.5	214.2	295.8	1449.9	4310.9	2811.3	1789.9	244.6	112.0
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°	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8	7290.8
2.5°	7220.3	7163.6	7108.3	7042.0	6972.9	6895.5	6856.8	6818.1	6808.4	6797.3	6758.6
5°	7021.3	6941.1	6802.9	6650.8	6490.5	6334.3	6215.5	6140.8	6084.2	6055.1	6004.0
7.5°	6764.2	6646.7	6404.8	6142.2	5872.7	5626.7	5413.8	5279.8	5152.6	5093.2	5025.4
10°	6519.5	6344.0	5968.1	5581.1	5194.1	4822.3	4472.6	4225.2	4005.4	3882.4	3795.3
12.5°	6309.5	6069.0	5547.9	5024.1	4493.3	3964.0	3440.1	3028.3	2684.1	2503.0	2410.4
15°	6104.9	5814.6	5148.5	4483.7	3802.3	3082.2	2393.9	1926.7	1642.0	1528.6	1489.9
17.5°	5919.7	5547.9	4747.6	3939.1	3089.1	2218.3	1608.8	1351.7	1242.5	1205.2	1192.8
20°	5719.3	5278.4	4331.6	3369.6	2345.5	1550.8	1256.4	1143.0	1098.8	1087.7	1082.2
22.5°	5525.8	5013.0	3933.6	2760.1	1684.8	1196.9	1079.4	1032.5	1025.5	1035.2	1035.2
25°	5361.3	4775.3	3503.7	2123.0	1237.0	1007.6	966.1	955.1	981.3	1017.3	1024.2
27.5°	5238.3	4580.4	3046.2	1567.3	985.5	876.3	874.9	892.9	957.8	1026.9	1040.7
30°	5154.0	4395.2	2557.0	1130.6	826.5	771.2	793.3	832.0	927.4	1025.5	1051.8
32.5°	5111.1	4258.4	2046.9	874.9	707.7	677.2	714.6	761.6	855.5	946.8	981.3
35°	5144.3	4157.5	1566.0	729.8	624.7	601.2	639.9	685.5	740.8	779.5	805.8
37.5°	5268.7	4117.4	1181.7	653.8	568.1	545.9	576.4	602.6	624.7	635.8	648.2
40°	5536.8	4160.2	946.8	615.1	536.3	508.6	521.1	530.7	544.6	555.6	561.1
42.5°	5932.1	4288.8	848.6	599.8	519.7	479.6	476.8	481.0	499.0	519.7	523.8
45°	6485.0	4515.4	841.7	609.5	511.4	456.1	443.7	449.2	476.8	508.6	514.2
47.5°	7191.3	4861.0	897.0	638.5	518.3	443.7	422.9	429.8	464.4	507.2	514.2
50°	8046.8	5343.3	989.6	681.4	548.7	446.4	416.0	420.2	456.1	503.1	510.0
52.5°	9057.1	6027.5	1090.5	722.9	580.5	464.4	421.6	411.9	445.0	486.5	494.8
55°	10180.8	6905.2	1194.2	760.2	597.1	486.5	432.6	400.8	424.3	458.9	465.8
57.5°	11560.2	8132.5	1373.8	796.1	608.1	501.7	443.7	389.8	398.1	422.9	428.5
60°	13427.5	9868.5	1690.4	855.5	633.0	507.2	442.3	380.1	371.8	385.6	388.4
62.5°	15665.1	11753.7	1954.3	930.2	674.5	511.4	434.0	373.2	349.7	349.7	352.4
65°	16993.4	12258.2	1807.8	992.4	709.0	507.2	424.3	366.3	333.1	317.9	319.3
67.5°	15866.9	10780.7	1549.4	1004.8	707.7	487.9	409.1	353.8	316.5	293.0	291.6
69°	14455.8	9301.8	1433.3	971.6	674.5	463.0	389.8	340.0	304.1	279.2	277.8
70°	13318.3	8399.2	1357.3	935.7	638.5	445.0	374.6	327.6	294.4	270.9	268.1
72.5°	9683.3	5503.7	1159.6	804.4	526.6	373.2	323.4	287.5	262.6	248.8	246.0
75°	4838.9	2624.7	941.2	652.4	403.6	298.5	265.4	240.5	228.1	225.3	223.9
77.5°	1589.5	1202.5	673.1	486.5	299.9	233.6	214.2	196.3	193.5	201.8	199.0
80°	873.5	699.4	427.1	322.0	204.6	171.4	168.6	158.9	163.1	176.9	174.1
82.5°	445.0	363.5	264.0	193.5	138.2	123.0	134.1	128.5	134.1	146.5	145.1
85°	219.8	199.0	167.2	117.5	91.2	78.8	95.4	99.5	102.3	112.0	112.0
87.5°	127.2	117.5	88.5	55.3	45.6	41.5	55.3	53.9	63.6	69.1	67.7
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)