

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: P192065

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA 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: 43886 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

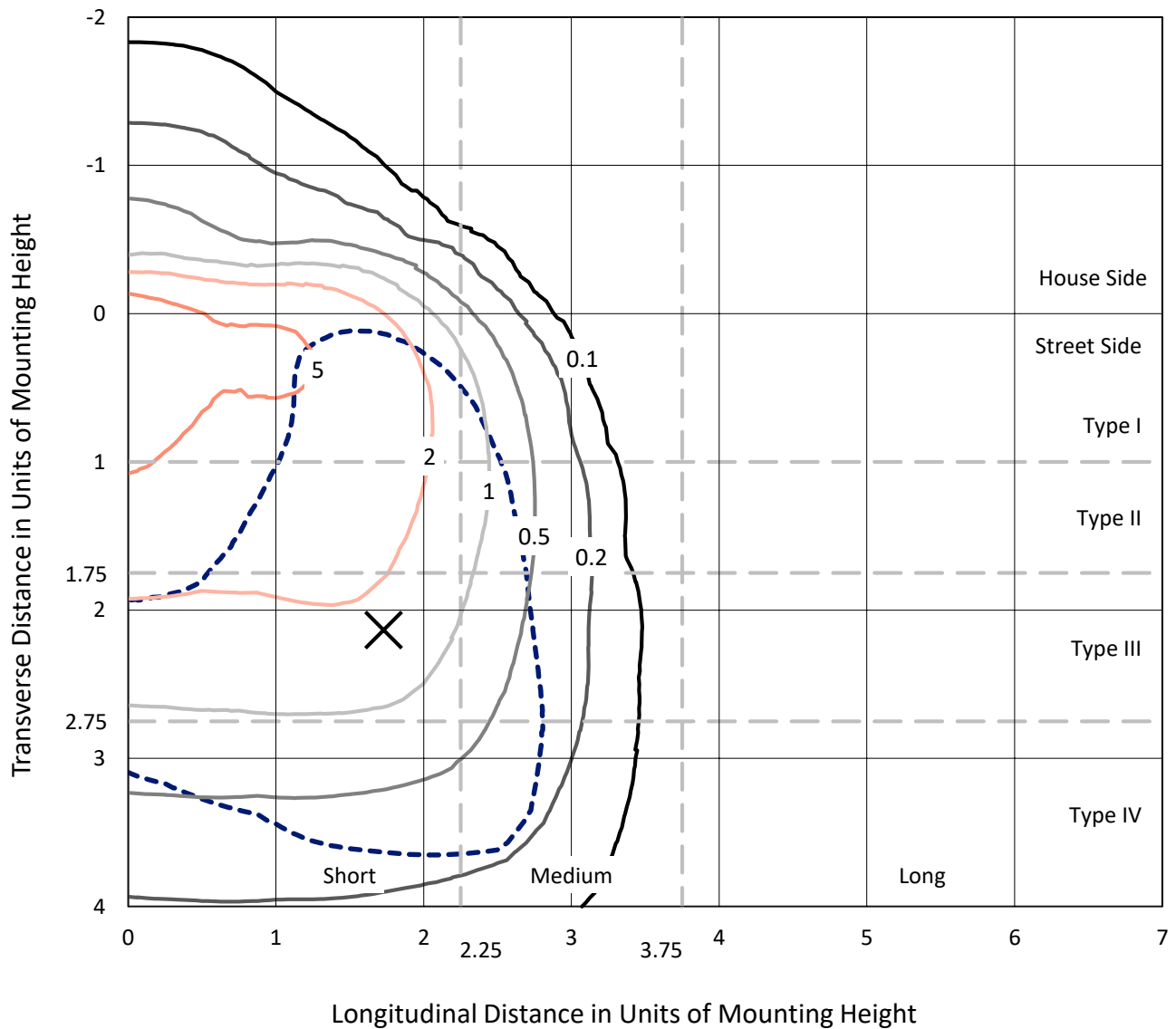


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

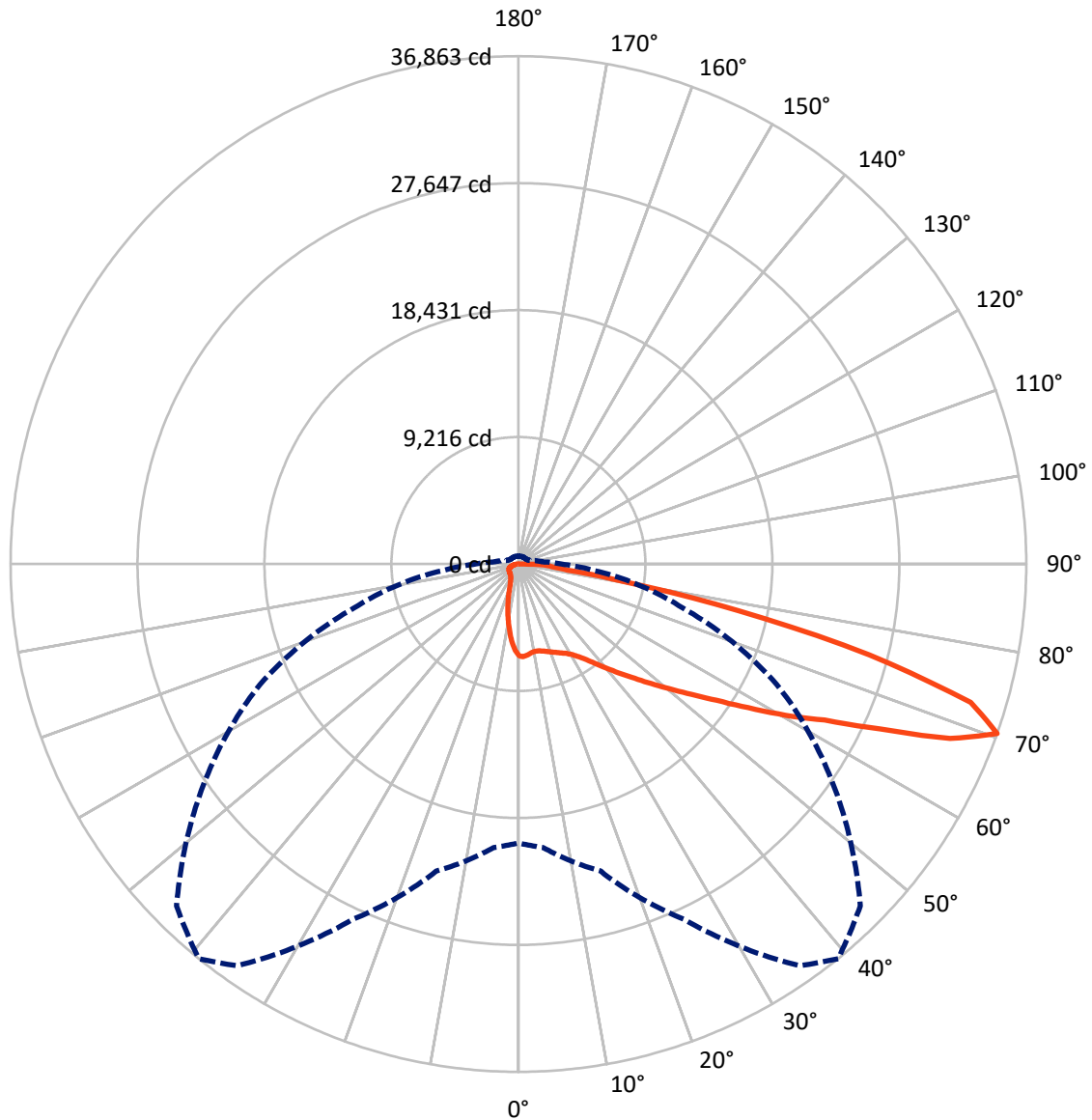


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.3	0.0	4991.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	38894.7	0.0	38894.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	43886.0	0.0	43886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	1.3
10°-20°	1429.2	3.3
20°-30°	2225.3	5.1
30°-40°	3466.7	7.9
40°-50°	5820.0	13.3
50°-60°	9245.5	21.1
60°-70°	12332.4	28.1
70°-80°	7447.3	17.0
80°-90°	1347.9	3.1
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°	43886.0	100.0
0°-180°	43886.0	100.0



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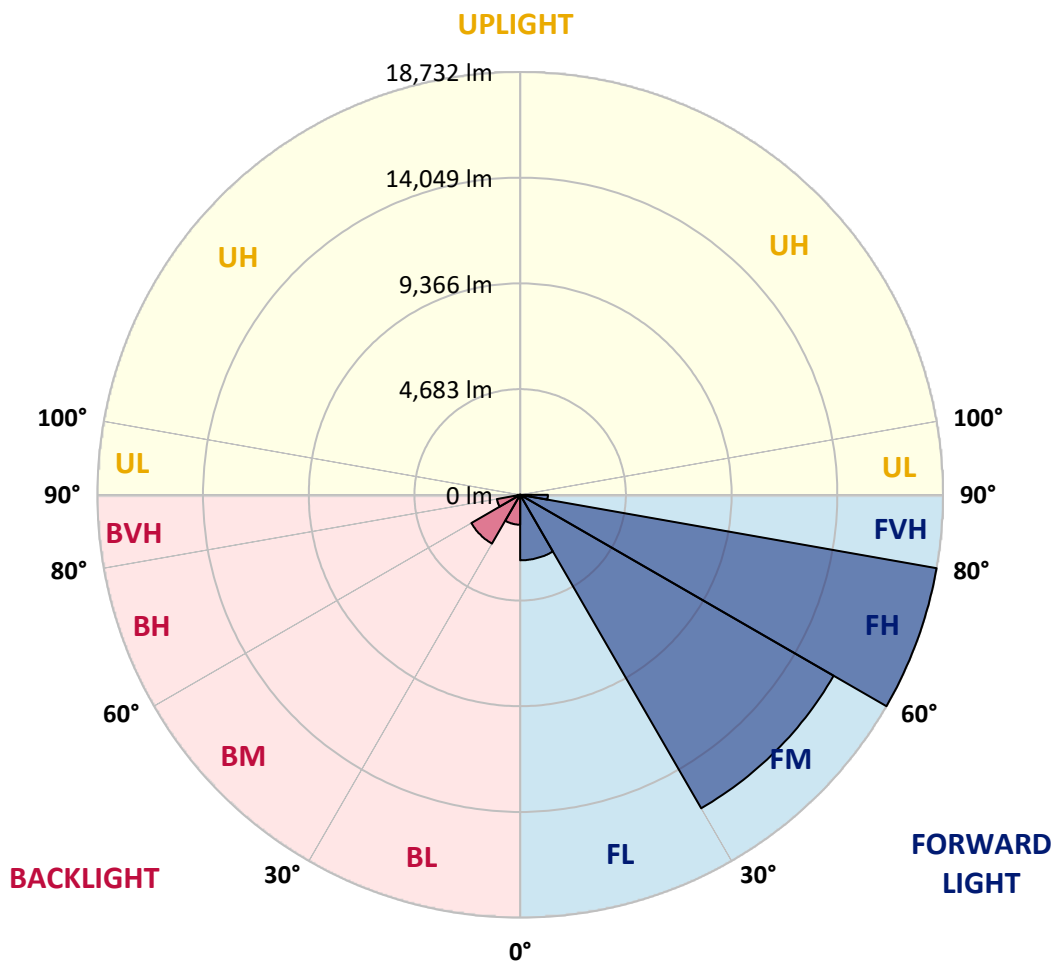
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2902.2	6.6			
FM	(30°-60°)	16034.3	36.5			
FH	(60°-80°)	18731.8	42.7			G5
FVH	(80°-90°)	1226.4	2.8			G5
BL	(0°-30°)	1324.1	3.0	B3/2500		
BM	(30°-60°)	2497.9	5.7	B2/2500		
BH	(60°-80°)	1047.9	2.4	B3/2500		G3/2500
BVH	(80°-90°)	121.5	0.3			G2/225
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°	39°	45°	55°	65°	75°	85°
0°	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6
2.5°	6792.0	6789.8	6771.9	6758.5	6747.4	6742.9	6751.8	6718.4	6689.4	6653.6	6615.7
5°	6740.7	6738.4	6709.4	6682.7	6655.9	6647.0	6644.7	6584.5	6548.8	6495.2	6423.8
7.5°	6684.9	6673.7	6635.8	6591.2	6544.3	6522.0	6499.7	6421.6	6381.4	6327.9	6245.3
10°	6626.9	6613.5	6577.8	6533.2	6488.5	6455.1	6417.1	6341.3	6298.9	6258.7	6162.8
12.5°	6566.6	6555.5	6546.5	6526.5	6495.2	6466.2	6437.2	6372.5	6327.9	6281.0	6169.5
15°	6557.7	6553.2	6573.3	6586.7	6568.9	6551.0	6519.8	6464.0	6417.1	6370.3	6225.2
17.5°	6629.1	6626.9	6678.2	6713.9	6705.0	6673.7	6631.3	6568.9	6530.9	6490.8	6310.0
20°	6785.3	6796.5	6858.9	6905.8	6861.2	6816.5	6747.4	6660.3	6640.3	6622.4	6397.1
22.5°	7079.8	7091.0	7135.6	7153.5	7037.4	6972.7	6876.8	6765.2	6751.8	6765.2	6501.9
25°	7539.5	7528.3	7521.6	7454.7	7242.7	7142.3	7019.6	6903.6	6910.2	6970.5	6649.2
27.5°	8148.6	8088.4	7994.6	7793.8	7456.9	7345.3	7195.8	7088.7	7131.1	7247.2	6870.1
30°	8780.1	8713.1	8496.7	8168.7	7738.0	7615.3	7448.0	7327.5	7439.1	7622.0	7164.6
32.5°	9364.6	9355.7	9038.9	8617.2	8126.3	8019.2	7851.8	7715.7	7896.5	8175.4	7606.4
35°	10002.8	10022.9	9643.6	9137.1	8650.6	8539.1	8418.6	8315.9	8556.9	8940.7	8246.8
37.5°	10685.6	10725.7	10277.2	9706.0	9248.6	9201.8	9130.4	9085.7	9458.4	9989.4	9141.5
40°	11598.1	11558.0	10935.5	10348.6	9982.7	9980.5	9958.2	10011.7	10632.0	11359.4	10290.6
42.5°	12575.4	12457.2	11633.8	11038.1	10788.2	10864.1	10908.7	11127.3	12044.4	13023.9	11691.9
45°	13628.6	13363.1	12359.0	11767.7	11682.9	11843.6	11995.3	12470.6	13706.7	14918.3	13227.0
47.5°	14469.8	14213.2	13108.7	12533.0	12718.2	12961.5	13253.7	14005.7	15567.6	16875.1	14742.0
50°	15132.5	14965.1	13865.1	13425.6	13858.4	14233.3	14710.8	15743.8	17504.3	18780.6	16145.5
52.5°	15775.1	15650.1	14628.2	14340.4	15197.2	15714.8	16364.1	17609.2	19490.2	20654.9	17325.8
55°	16355.2	16266.0	15449.3	15480.6	16772.5	17446.3	18263.0	19733.4	21654.5	22326.1	18325.4
57.5°	17009.0	16895.2	16386.5	16910.8	18796.2	19670.9	20733.0	22120.8	23684.9	23812.1	19086.3
60°	17667.2	17569.0	17426.2	18561.9	21366.7	22285.9	23292.2	24434.6	25744.4	24965.7	19041.7
62.5°	18238.4	18249.6	18501.7	20295.6	23883.5	24947.8	26175.0	27304.1	27607.5	25166.5	17633.7
65°	19206.8	19383.1	20135.0	22750.0	27426.8	28850.3	30356.4	30175.7	28122.9	23290.0	14614.8
67.5°	20358.1	20668.3	22192.2	26021.1	31904.9	33794.8	34377.2	30825.0	26059.0	18932.3	10417.8
70°	20242.1	20668.3	23080.3	28459.9	35595.5	36862.8	35095.7	27897.6	20692.8	12367.9	5533.6
72.5°	17975.1	18584.3	21270.7	27342.0	34433.0	34321.4	30468.0	20797.7	12294.3	4966.8	2162.1
75°	13700.0	14315.8	16627.4	21600.9	27214.8	26277.7	21618.8	11488.8	4665.6	1972.4	1363.3
77.5°	7880.8	8358.3	10143.4	13247.1	17265.6	16303.9	12033.2	5109.6	2271.4	1374.5	1064.3
80°	4400.1	4665.6	5750.0	6720.6	8461.0	7755.9	5384.1	3175.1	1695.8	997.4	821.1
82.5°	3478.6	3715.1	4650.0	4239.4	3864.6	3565.6	3092.5	2827.0	1354.4	629.2	490.9
85°	3039.0	3264.3	3936.0	3338.0	2639.6	2420.9	2512.4	2782.4	1053.2	379.3	419.5
87.5°	2815.9	3117.1	3507.6	2572.7	2055.0	1820.7	2318.3	3050.1	339.2	236.5	169.6
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°	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6	6662.6
2.5°	6582.2	6546.5	6488.5	6437.2	6356.9	6314.5	6267.6	6234.2	6207.4	6185.1	6220.8
5°	6379.2	6312.3	6189.5	6057.9	5901.7	5779.0	5676.4	5580.4	5513.5	5468.8	5500.1
7.5°	6187.3	6078.0	5886.1	5647.3	5379.6	5152.0	4964.6	4799.5	4685.7	4612.0	4641.0
10°	6078.0	5941.9	5645.1	5270.3	4875.3	4520.6	4226.0	3971.7	3795.4	3695.0	3710.6
12.5°	6051.2	5874.9	5464.4	4949.0	4409.0	3915.9	3500.9	3148.3	2900.7	2771.2	2775.7
15°	6071.3	5845.9	5294.8	4641.0	3958.3	3335.8	2818.1	2389.7	2101.9	1954.6	1952.4
17.5°	6104.8	5823.6	5116.3	4308.6	3500.9	2777.9	2200.0	1780.6	1526.2	1407.9	1399.0
20°	6140.5	5787.9	4915.5	3949.3	3025.6	2260.3	1722.5	1394.5	1233.9	1169.2	1164.7
22.5°	6191.8	5756.7	4708.0	3570.0	2559.3	1840.8	1416.9	1196.0	1111.2	1077.7	1073.2
25°	6274.3	5741.1	4487.1	3175.1	2139.8	1539.6	1233.9	1097.8	1048.7	1026.4	1024.2
27.5°	6412.7	5763.4	4279.6	2791.3	1798.4	1336.5	1131.3	1048.7	1013.0	992.9	990.7
30°	6591.2	5832.5	4060.9	2427.6	1532.9	1198.2	1068.8	1015.2	986.2	966.1	966.1
32.5°	6887.9	5948.6	3831.1	2113.0	1343.2	1102.2	1021.9	986.2	961.7	946.1	943.8
35°	7325.3	6167.2	3616.9	1852.0	1207.1	1033.1	981.8	955.0	937.1	928.2	928.2
37.5°	7961.2	6513.1	3427.2	1664.5	1124.6	986.2	943.8	923.7	912.6	912.6	912.6
40°	8815.8	6990.6	3273.3	1539.6	1077.7	952.8	914.8	899.2	892.5	894.7	894.7
42.5°	9871.1	7610.9	3170.6	1452.6	1055.4	932.7	894.7	881.4	874.7	872.4	874.7
45°	11073.8	8315.9	3159.5	1387.9	1033.1	919.3	881.4	868.0	854.6	845.7	845.7
47.5°	12243.0	9032.2	3251.0	1365.5	1008.5	903.7	870.2	856.8	836.7	816.6	816.6
50°	13276.1	9641.3	3373.7	1374.5	999.6	881.4	852.3	845.7	814.4	792.1	789.9
52.5°	14097.2	10109.9	3474.1	1401.2	1008.5	865.7	830.0	832.3	798.8	774.3	772.0
55°	14755.4	10417.8	3447.3	1428.0	1028.6	856.8	810.0	814.4	787.6	763.1	763.1
57.5°	15043.2	10304.0	3150.6	1405.7	1044.2	859.0	794.3	812.2	789.9	767.6	767.6
60°	14425.2	9293.2	2595.0	1307.5	1024.2	852.3	787.6	821.1	818.9	796.6	794.3
62.5°	12555.4	7483.7	2012.6	1162.5	955.0	818.9	769.8	818.9	843.4	836.7	834.5
65°	9677.0	5330.5	1537.3	1006.3	861.3	763.1	722.9	767.6	801.0	810.0	807.7
67.5°	6281.0	3266.6	1184.8	859.0	756.4	698.4	662.7	682.8	689.5	689.5	685.0
70°	3088.1	1758.2	943.8	722.9	649.3	629.2	609.1	598.0	586.8	577.9	577.9
72.5°	1524.0	1149.1	776.5	611.4	560.0	551.1	546.7	533.3	524.3	513.2	508.7
75°	1126.8	934.9	660.5	515.4	482.0	473.0	482.0	470.8	468.6	459.6	455.2
77.5°	926.0	796.6	569.0	441.8	412.8	397.2	410.6	412.8	415.0	401.6	397.2
80°	751.9	673.8	475.3	365.9	339.2	328.0	336.9	354.8	359.2	339.2	330.2
82.5°	542.2	551.1	383.8	285.6	263.3	254.4	272.2	294.5	299.0	270.0	263.3
85°	455.2	459.6	294.5	203.0	180.7	167.3	196.4	218.7	234.3	205.3	198.6
87.5°	189.7	270.0	169.6	113.8	100.4	87.0	104.9	116.0	140.6	129.4	127.2
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)