

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: P269561

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269561
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-08-LED-E1-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 39382.9 lumens
Efficiency: N/A
Efficacy: 88.5 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

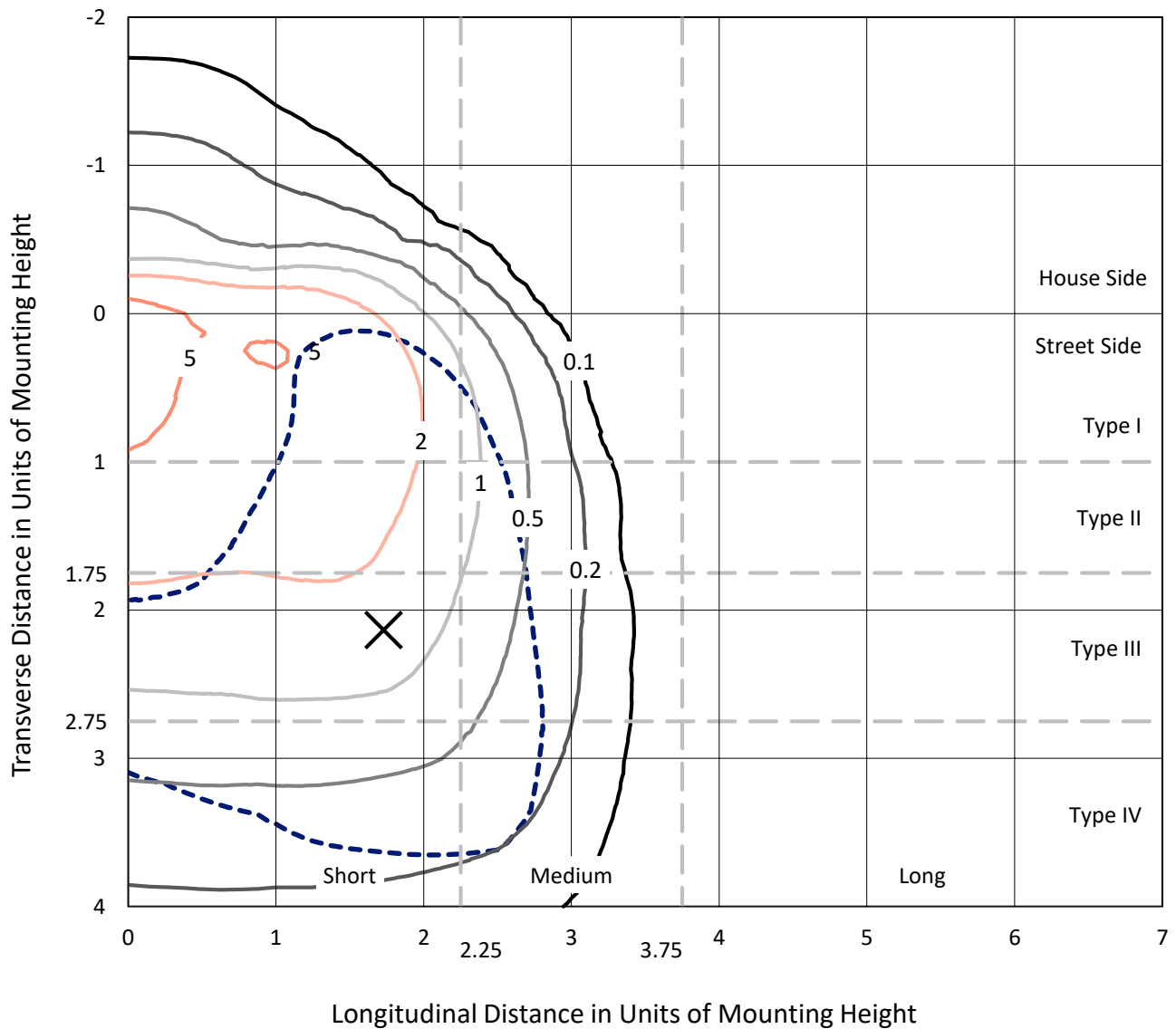
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

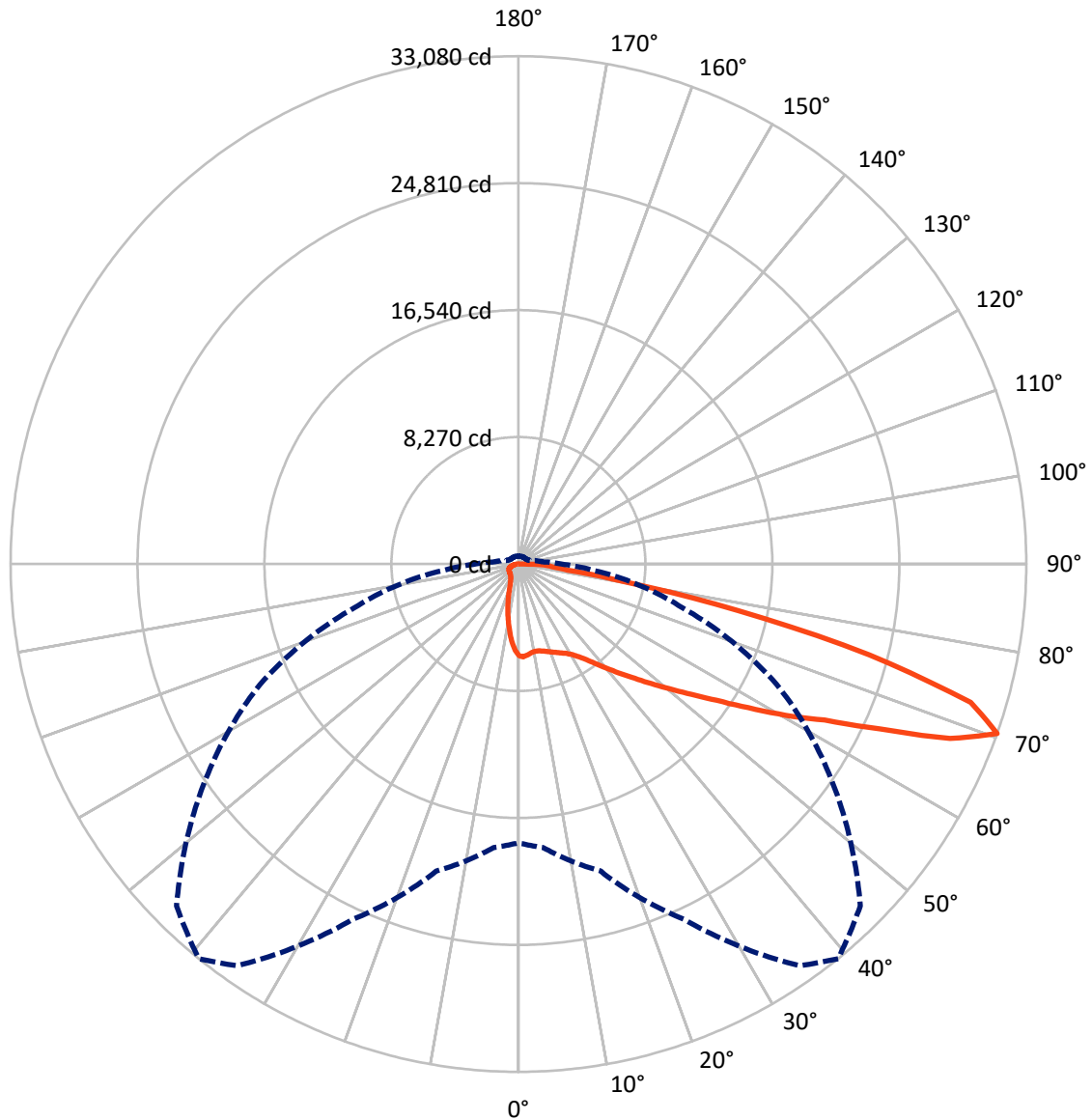
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	4479.2	0.0	4479.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	34903.7	0.0	34903.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	39382.9	0.0	39382.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	1.3
10°-20°	1282.6	3.3
20°-30°	1997.0	5.1
30°-40°	3111.0	7.9
40°-50°	5222.8	13.3
50°-60°	8296.8	21.1
60°-70°	11067.0	28.1
70°-80°	6683.1	17.0
80°-90°	1209.5	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°	39382.9	100.0
0°-180°	39382.9	100.0



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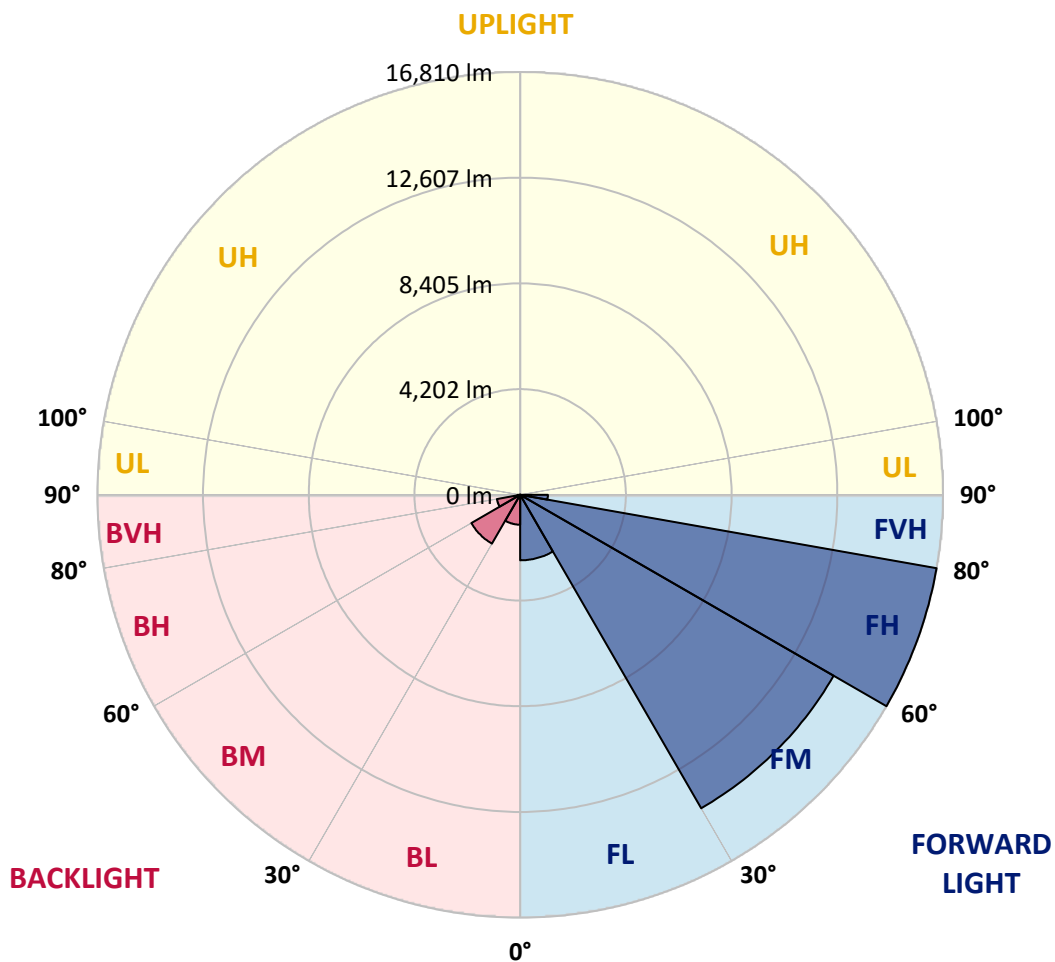
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2604.4	6.6			
FM	(30°-60°)	14389.0	36.5			
FH	(60°-80°)	16809.8	42.7			G5
FVH	(80°-90°)	1100.5	2.8			G5
BL	(0°-30°)	1188.2	3.0	B3/2500		
BM	(30°-60°)	2241.6	5.7	B2/2500		
BH	(60°-80°)	940.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	109.0	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°	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8
2.5°	6095.1	6093.1	6077.0	6065.0	6055.0	6051.1	6059.1	6029.1	6003.0	5970.9	5936.9
5°	6049.0	6047.0	6021.0	5996.9	5972.9	5964.9	5962.9	5908.8	5876.8	5828.7	5764.8
7.5°	5998.9	5988.9	5955.0	5914.9	5872.8	5852.7	5832.8	5762.6	5726.6	5678.5	5604.4
10°	5946.9	5934.9	5902.9	5862.8	5822.8	5792.7	5758.7	5690.7	5652.6	5616.6	5530.4
12.5°	5892.8	5882.8	5874.8	5856.8	5828.7	5802.7	5776.7	5718.6	5678.5	5636.5	5536.4
15°	5884.8	5880.8	5898.8	5910.8	5894.9	5878.8	5850.8	5800.7	5758.7	5716.6	5586.5
17.5°	5948.8	5946.9	5993.0	6025.0	6016.9	5988.9	5950.9	5894.9	5860.8	5824.8	5662.6
20°	6089.2	6099.1	6155.1	6197.1	6157.2	6117.1	6055.0	5977.0	5958.8	5942.8	5740.7
22.5°	6353.4	6363.4	6403.5	6419.5	6315.4	6257.2	6171.1	6071.0	6059.1	6071.0	5834.9
25°	6765.9	6755.9	6749.9	6689.8	6499.5	6409.4	6299.4	6195.3	6201.2	6255.3	5966.9
27.5°	7312.6	7258.5	7174.4	6994.2	6691.7	6591.7	6457.5	6361.3	6399.4	6503.5	6165.2
30°	7879.2	7819.0	7624.9	7330.4	6944.1	6833.9	6683.7	6575.7	6675.8	6840.0	6429.4
32.5°	8403.7	8395.7	8111.4	7733.0	7292.5	7196.3	7046.1	6924.0	7086.2	7336.5	6826.0
35°	8976.5	8994.4	8654.0	8199.5	7763.1	7662.9	7554.7	7462.7	7678.9	8023.3	7400.5
37.5°	9589.1	9625.2	9222.7	8710.1	8299.6	8257.6	8193.5	8153.5	8487.8	8964.4	8203.5
40°	10408.1	10372.0	9813.4	9286.8	8958.3	8956.5	8936.3	8984.4	9541.1	10193.8	9234.8
42.5°	11285.0	11179.0	10440.1	9905.5	9681.3	9749.3	9789.4	9985.6	10808.5	11687.6	10492.2
45°	12230.2	11992.0	11090.8	10560.3	10484.2	10628.3	10764.5	11190.9	12300.3	13387.5	11869.8
47.5°	12985.1	12754.9	11763.7	11247.0	11413.2	11631.6	11893.7	12568.5	13970.3	15143.5	13229.3
50°	13579.8	13429.7	12442.5	12048.0	12436.5	12772.8	13201.3	14128.5	15708.2	16853.6	14488.9
52.5°	14156.4	14044.3	13127.2	12868.8	13637.8	14102.3	14685.0	15802.4	17490.3	18535.4	15548.0
55°	14677.0	14597.0	13864.1	13892.1	15051.6	15656.2	16388.9	17708.6	19432.6	20035.3	16445.1
57.5°	15263.7	15161.7	14705.1	15175.5	16867.6	17652.6	18605.5	19851.0	21254.6	21368.8	17127.9
60°	15854.4	15766.3	15638.1	16657.4	19174.2	19999.2	20902.2	21927.4	23102.8	22404.0	17087.7
62.5°	16366.9	16377.0	16603.3	18213.1	21432.9	22388.0	23489.3	24502.3	24774.7	22584.2	15824.4
65°	17236.0	17394.2	18069.0	20415.7	24612.7	25890.1	27241.6	27079.4	25237.3	20900.2	13115.3
67.5°	18269.2	18547.6	19915.2	23351.1	28631.1	30327.1	30849.9	27662.0	23385.1	16989.7	9348.8
70°	18165.0	18547.6	20712.0	25539.6	31943.1	33080.4	31494.5	25035.0	18569.6	11098.9	4965.8
72.5°	16130.8	16677.4	19088.2	24536.5	30899.9	30799.7	27341.7	18663.6	11032.9	4457.2	1940.2
75°	12294.3	12846.9	14921.3	19384.4	24422.3	23581.3	19400.5	10309.9	4186.9	1770.1	1223.4
77.5°	7072.1	7500.7	9102.5	11887.8	15494.0	14631.0	10798.5	4585.3	2038.3	1233.5	955.1
80°	3948.6	4186.9	5160.0	6031.0	7592.8	6960.1	4831.7	2849.3	1521.8	895.0	736.9
82.5°	3121.6	3333.9	4172.8	3804.4	3468.0	3199.8	2775.3	2537.0	1215.3	564.7	440.4
85°	2727.2	2929.5	3532.0	2995.5	2368.7	2172.6	2254.7	2496.8	945.0	340.4	376.4
87.5°	2526.9	2797.2	3147.7	2308.6	1844.1	1633.8	2080.5	2737.1	304.3	212.3	152.2
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°	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8	5978.8
2.5°	5906.9	5874.8	5822.8	5776.7	5704.6	5666.6	5624.6	5594.5	5570.5	5550.4	5582.4
5°	5724.7	5664.6	5554.4	5436.4	5296.1	5186.1	5093.8	5007.8	4947.8	4907.7	4935.7
7.5°	5552.5	5454.2	5282.2	5067.9	4827.6	4623.3	4455.1	4307.1	4204.8	4138.9	4164.8
10°	5454.2	5332.2	5065.9	4729.4	4375.0	4056.7	3792.5	3564.1	3406.0	3315.9	3329.8
12.5°	5430.3	5272.2	4903.7	4441.1	3956.6	3514.1	3141.6	2825.3	2603.0	2486.9	2490.9
15°	5448.3	5246.1	4751.6	4164.8	3552.1	2993.5	2529.0	2144.6	1886.3	1754.0	1752.1
17.5°	5478.4	5226.1	4591.3	3866.5	3141.6	2492.8	1974.3	1597.8	1369.6	1263.5	1255.4
20°	5510.5	5194.0	4411.0	3544.2	2715.1	2028.4	1545.9	1251.5	1107.3	1049.2	1045.2
22.5°	5556.5	5166.1	4224.9	3203.7	2296.6	1652.0	1271.6	1073.3	997.2	967.1	963.2
25°	5630.5	5152.0	4026.7	2849.3	1920.2	1381.7	1107.3	985.1	941.1	921.0	919.1
27.5°	5754.7	5172.0	3840.4	2505.0	1613.8	1199.3	1015.2	941.1	909.1	890.9	889.1
30°	5914.9	5234.1	3644.2	2178.5	1375.7	1075.2	959.1	911.1	885.0	867.0	867.0
32.5°	6181.1	5338.2	3438.1	1896.2	1205.3	989.2	917.1	885.0	863.0	849.0	847.0
35°	6573.6	5534.4	3245.8	1662.0	1083.3	927.1	881.0	857.1	841.0	833.0	833.0
37.5°	7144.3	5844.8	3075.5	1493.7	1009.2	885.0	847.0	829.0	819.0	819.0	819.0
40°	7911.2	6273.3	2937.4	1381.7	967.1	854.9	821.0	806.9	800.8	802.9	802.9
42.5°	8858.2	6830.0	2845.3	1303.5	947.2	837.0	802.9	790.9	784.8	783.0	784.8
45°	9937.5	7462.7	2835.3	1245.4	927.1	825.0	790.9	778.9	767.0	758.9	758.9
47.5°	10986.7	8105.3	2917.3	1225.4	905.0	810.9	780.8	768.9	750.9	732.8	732.8
50°	11913.9	8652.0	3027.5	1233.5	897.0	790.9	764.8	758.9	730.9	710.7	708.9
52.5°	12650.7	9072.5	3117.6	1257.4	905.0	776.9	744.9	746.9	716.8	694.7	692.9
55°	13241.3	9348.8	3093.7	1281.5	923.1	768.9	726.9	730.9	706.8	684.8	684.8
57.5°	13499.6	9246.8	2827.2	1261.5	937.1	770.8	712.9	728.9	708.9	688.8	688.8
60°	12945.0	8339.7	2328.6	1173.4	919.1	764.8	706.8	736.9	734.9	714.8	712.9
62.5°	11267.1	6715.8	1806.1	1043.2	857.1	734.9	690.7	734.9	756.9	750.9	748.8
65°	8684.0	4783.6	1379.5	903.1	772.9	684.8	648.8	688.8	718.9	726.9	724.8
67.5°	5636.5	2931.3	1063.2	770.8	678.8	626.7	594.7	612.7	618.8	618.8	614.7
70°	2771.2	1577.9	847.0	648.8	582.7	564.7	546.6	536.6	526.5	518.6	518.6
72.5°	1367.6	1031.3	696.8	548.7	502.6	494.5	490.6	478.5	470.5	460.6	456.5
75°	1011.2	838.9	592.7	462.5	432.5	424.4	432.5	422.6	420.4	412.5	408.5
77.5°	830.9	714.8	510.5	396.4	370.5	356.4	368.5	370.5	372.4	360.4	356.4
80°	674.7	604.6	426.4	328.4	304.3	294.4	302.4	318.4	322.4	304.3	296.4
82.5°	486.5	494.5	344.4	256.2	236.3	228.3	244.2	264.3	268.4	242.4	236.3
85°	408.5	412.5	264.3	182.1	162.1	150.1	176.2	196.2	210.3	184.2	178.3
87.5°	170.1	242.4	152.2	102.0	90.1	78.2	94.1	104.2	126.1	116.2	114.2
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)