

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: P192055

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192055
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 40006 lumens
Efficiency: N/A
Efficacy: 102.3 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

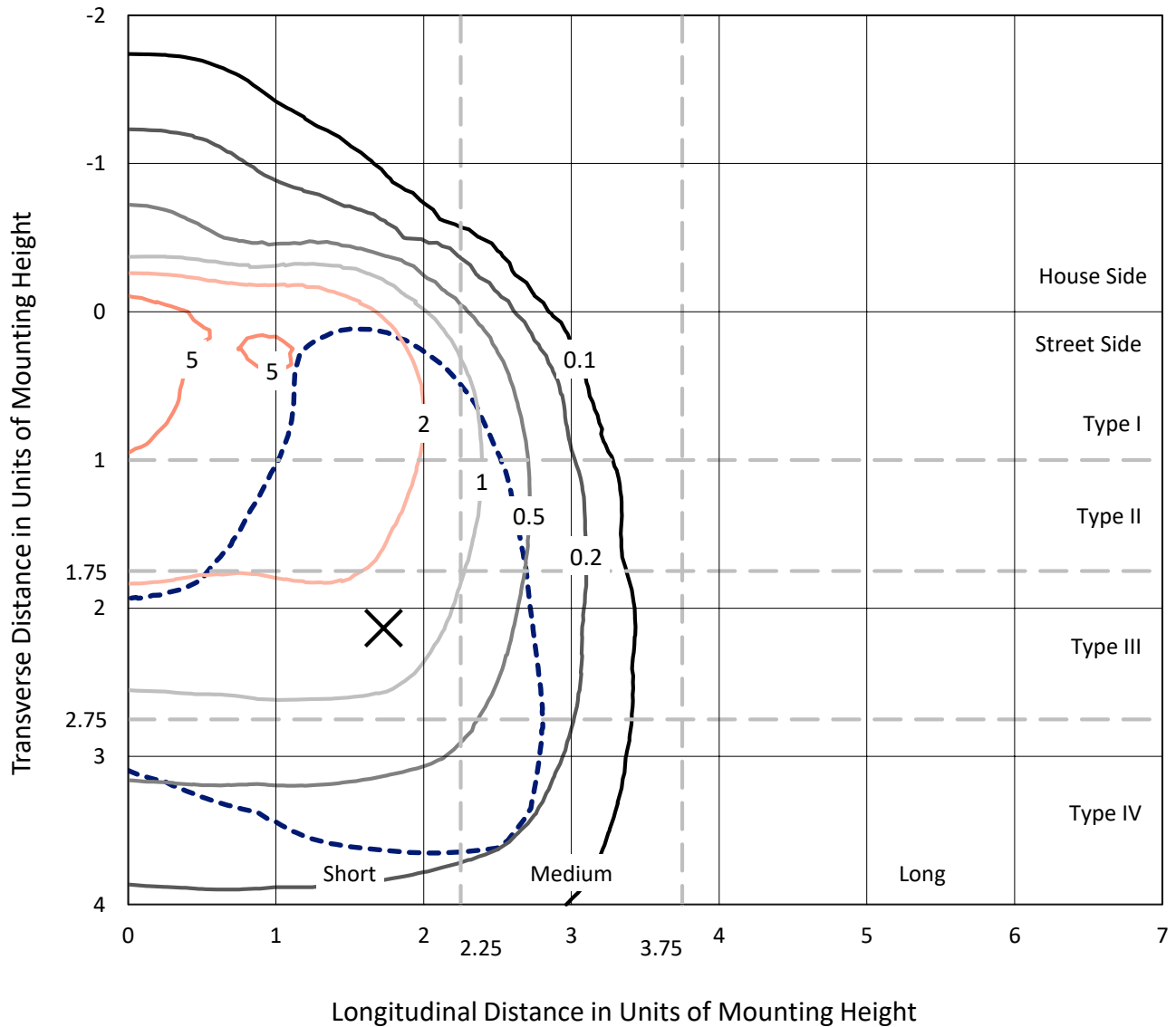
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

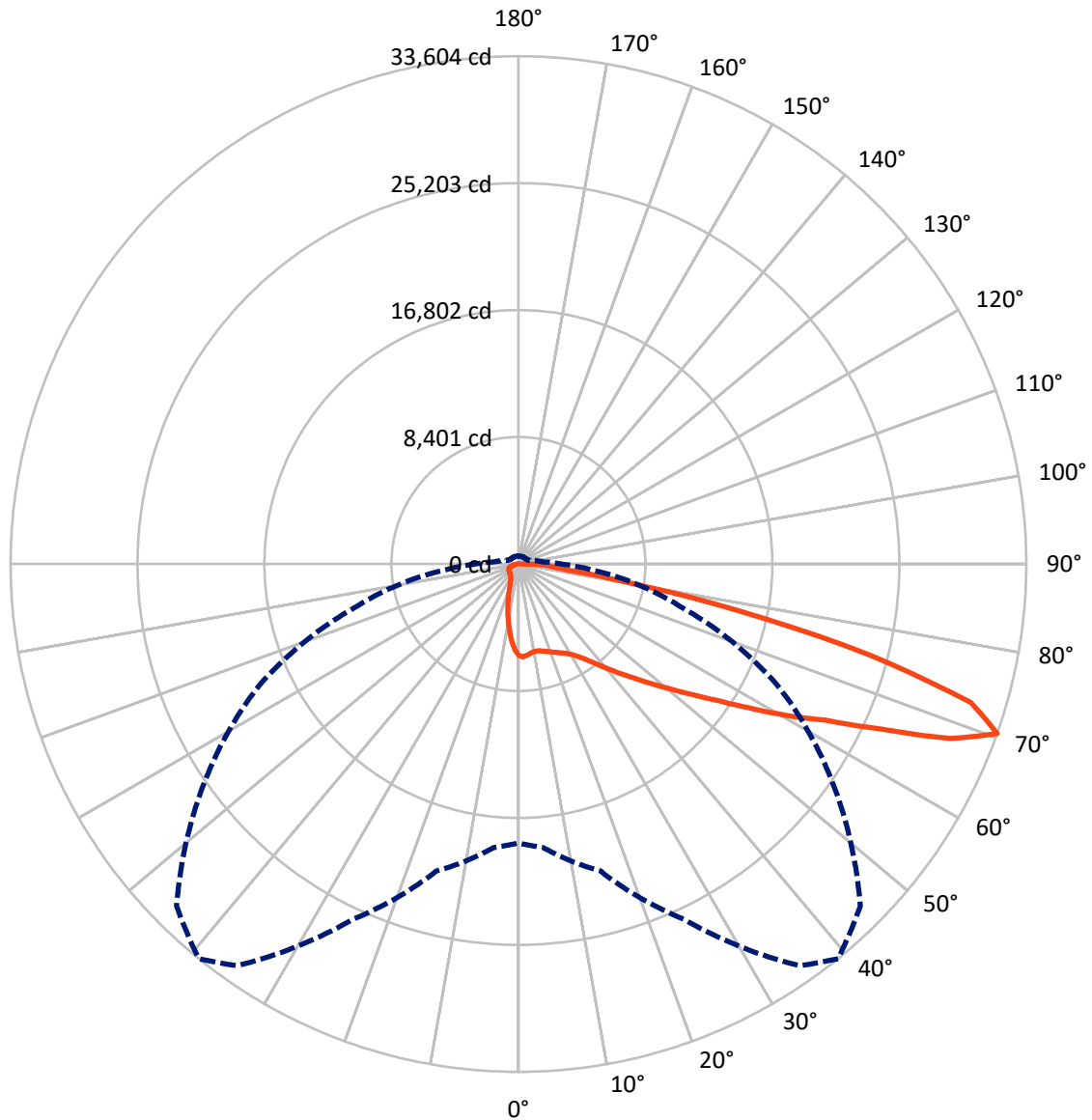
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	4550.0	0.0	4550.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	35456.0	0.0	35456.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	40006.0	0.0	40006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.2	1.3
10°-20°	1302.9	3.3
20°-30°	2028.6	5.1
30°-40°	3160.2	7.9
40°-50°	5305.4	13.3
50°-60°	8428.1	21.1
60°-70°	11242.1	28.1
70°-80°	6788.8	17.0
80°-90°	1228.7	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°	40006.0	100.0
0°-180°	40006.0	100.0



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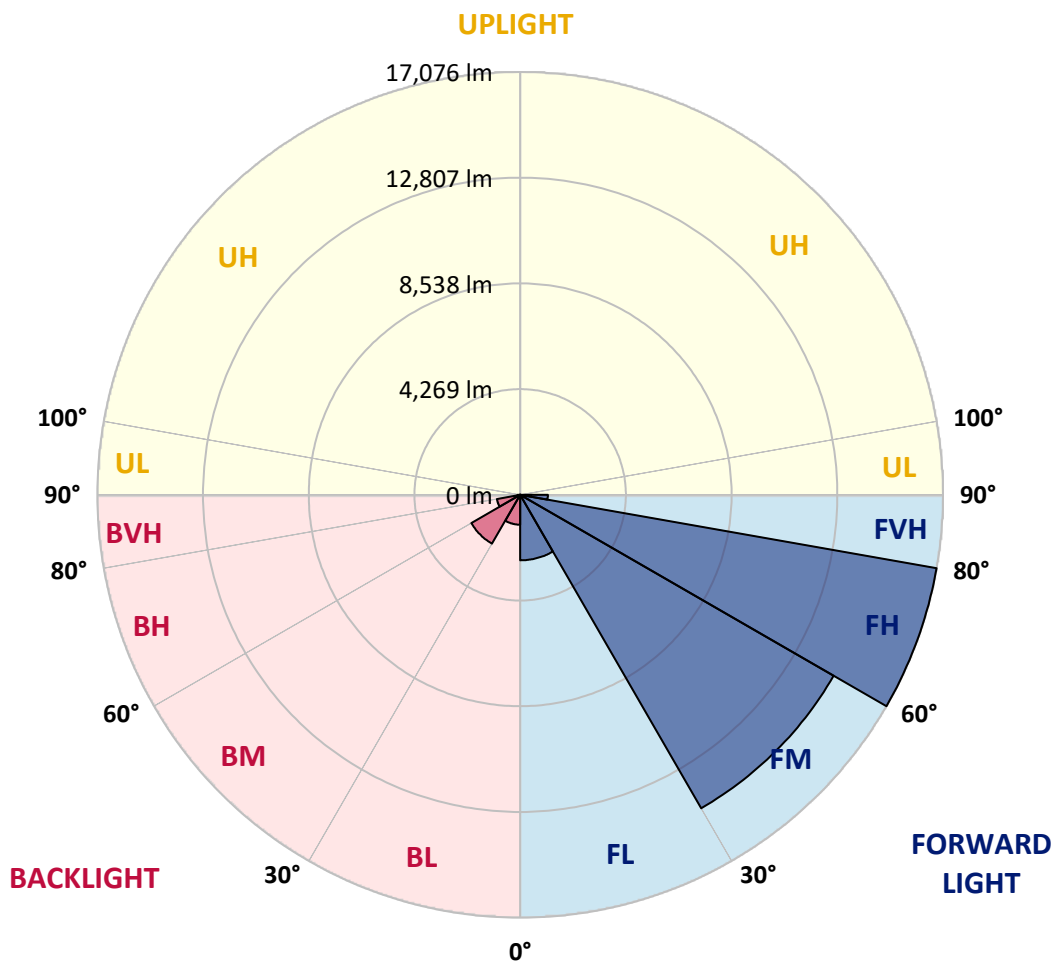
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2645.6	6.6			
FM	(30°-60°)	14616.6	36.5			
FH	(60°-80°)	17075.7	42.7			G5
FVH	(80°-90°)	1117.9	2.8			G5
BL	(0°-30°)	1207.0	3.0	B3/2500		
BM	(30°-60°)	2277.0	5.7	B2/2500		
BH	(60°-80°)	955.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	110.7	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°	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5
2.5°	6191.5	6189.5	6173.2	6161.0	6150.8	6146.8	6154.9	6124.4	6097.9	6065.4	6030.8
5°	6144.7	6142.7	6116.2	6091.8	6067.4	6059.3	6057.3	6002.3	5969.8	5921.0	5855.9
7.5°	6093.9	6083.7	6049.1	6008.4	5965.7	5945.4	5925.0	5853.9	5817.2	5768.4	5693.2
10°	6041.0	6028.8	5996.2	5955.6	5914.9	5884.4	5849.8	5780.6	5742.0	5705.4	5617.9
12.5°	5986.1	5975.9	5967.8	5949.5	5921.0	5894.5	5868.1	5809.1	5768.4	5725.7	5624.0
15°	5977.9	5973.9	5992.2	6004.4	5988.1	5971.8	5943.4	5892.5	5849.8	5807.1	5674.9
17.5°	6043.0	6041.0	6087.8	6120.3	6112.2	6083.7	6045.1	5988.1	5953.5	5916.9	5752.2
20°	6185.4	6195.6	6252.5	6295.2	6254.6	6213.9	6150.8	6071.5	6053.2	6036.9	5831.5
22.5°	6453.9	6464.1	6504.7	6521.0	6415.2	6356.3	6268.8	6167.1	6154.9	6167.1	5927.1
25°	6872.9	6862.7	6856.6	6795.6	6602.4	6510.8	6399.0	6293.2	6299.3	6354.2	6061.3
27.5°	7428.2	7373.3	7287.8	7104.8	6797.6	6695.9	6559.7	6462.0	6500.7	6606.4	6262.7
30°	8003.8	7942.8	7745.5	7446.5	7053.9	6942.0	6789.5	6679.7	6781.4	6948.2	6531.2
32.5°	8536.7	8528.6	8239.7	7855.3	7407.8	7310.2	7157.7	7033.6	7198.3	7452.6	6933.9
35°	9118.4	9136.7	8791.0	8329.2	7885.8	7784.1	7674.3	7580.7	7800.4	8150.2	7517.7
37.5°	9740.8	9777.4	9368.6	8847.9	8430.9	8388.2	8323.1	8282.5	8622.1	9106.2	8333.3
40°	10572.7	10536.1	9968.6	9433.7	9100.1	9098.1	9077.8	9126.6	9692.0	10355.1	9380.8
42.5°	11463.6	11355.8	10605.3	10062.2	9834.4	9903.6	9944.2	10143.6	10979.5	11872.5	10658.2
45°	12423.7	12181.6	11266.3	10727.3	10650.0	10796.5	10934.8	11368.0	12494.9	13599.3	12057.6
47.5°	13190.5	12956.6	11949.8	11425.0	11593.8	11815.5	12082.0	12767.4	14191.2	15383.2	13438.7
50°	13794.6	13642.1	12639.3	12238.6	12633.2	12974.9	13410.2	14351.9	15956.7	17120.2	14718.0
52.5°	14380.4	14266.5	13334.9	13072.5	13853.6	14325.5	14917.4	16052.3	17767.0	18828.8	15794.0
55°	14909.2	14827.9	14083.4	14111.9	15289.6	15903.9	16648.3	17988.7	19740.0	20352.2	16705.3
57.5°	15505.2	15401.5	14937.7	15415.7	17134.4	17931.8	18899.9	20165.1	21590.9	21706.9	17398.9
60°	16105.2	16015.7	15885.6	16920.9	19477.6	20315.6	21232.9	22274.4	23468.3	22758.5	17358.2
62.5°	16625.9	16636.1	16865.9	18501.3	21772.0	22742.2	23860.9	24890.1	25166.7	22941.5	16074.7
65°	17508.7	17669.4	18354.8	20738.7	25002.0	26299.6	27672.6	27507.8	25636.6	21230.9	13322.7
67.5°	18558.2	18841.0	20230.2	23720.5	29084.2	30807.0	31337.9	28099.7	23755.1	17258.5	9496.8
70°	18452.5	18841.0	21039.7	25943.7	32448.4	33603.8	31992.8	25431.1	18863.3	11274.5	5044.3
72.5°	16385.9	16941.2	19390.1	24924.7	31388.7	31287.0	27774.3	18958.9	11207.4	4527.7	1970.9
75°	12488.8	13050.2	15157.4	19691.2	24808.7	23954.4	19707.4	10473.1	4253.1	1798.1	1242.8
77.5°	7184.1	7619.4	9246.6	12075.9	15739.1	14862.5	10969.4	4657.9	2070.6	1252.9	970.2
80°	4011.1	4253.1	5241.6	6126.4	7712.9	7070.2	4908.0	2894.4	1545.8	909.2	748.5
82.5°	3171.0	3386.6	4238.9	3864.6	3522.9	3250.3	2819.1	2577.1	1234.6	573.6	447.5
85°	2770.3	2975.7	3588.0	3042.9	2406.2	2206.9	2290.3	2536.4	960.0	345.8	382.4
87.5°	2566.9	2841.5	3197.5	2345.2	1873.3	1659.7	2113.3	2780.5	309.2	215.6	154.6
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°	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5	6073.5
2.5°	6000.3	5967.8	5914.9	5868.1	5794.9	5756.2	5713.5	5683.0	5658.6	5638.3	5670.8
5°	5815.2	5754.2	5642.3	5522.3	5379.9	5268.1	5174.5	5087.0	5026.0	4985.3	5013.8
7.5°	5640.3	5540.6	5365.7	5148.1	4904.0	4696.5	4525.7	4375.1	4271.4	4204.3	4230.7
10°	5540.6	5416.5	5146.0	4804.3	4444.3	4120.9	3852.4	3620.5	3459.8	3368.3	3382.5
12.5°	5516.2	5355.5	4981.3	4511.4	4019.2	3569.7	3191.3	2870.0	2644.2	2526.2	2530.3
15°	5534.5	5329.1	4826.7	4230.7	3608.3	3040.8	2568.9	2178.4	1916.0	1781.8	1779.8
17.5°	5565.0	5308.7	4664.0	3927.7	3191.3	2532.3	2005.5	1623.1	1391.3	1283.5	1275.3
20°	5597.6	5276.2	4480.9	3600.2	2758.1	2060.4	1570.2	1271.3	1124.8	1065.8	1061.7
22.5°	5644.4	5247.7	4291.7	3254.4	2333.0	1678.1	1291.6	1090.2	1012.9	982.4	978.4
25°	5719.6	5233.5	4090.4	2894.4	1950.6	1403.5	1124.8	1000.7	956.0	935.6	933.6
27.5°	5845.7	5253.8	3901.2	2544.5	1639.4	1218.4	1031.2	956.0	923.4	905.1	903.1
30°	6008.4	5316.9	3701.9	2213.0	1397.4	1092.3	974.3	925.5	899.0	880.7	880.7
32.5°	6279.0	5422.7	3492.4	1926.2	1224.5	1004.8	931.6	899.0	876.7	862.4	860.4
35°	6677.6	5622.0	3297.1	1688.2	1100.4	941.7	895.0	870.6	854.3	846.1	846.1
37.5°	7257.3	5937.3	3124.2	1517.4	1025.1	899.0	860.4	842.1	831.9	831.9	831.9
40°	8036.3	6372.5	2983.9	1403.5	982.4	868.5	833.9	819.7	813.6	815.6	815.6
42.5°	8998.4	6938.0	2890.3	1324.1	962.1	850.2	815.6	803.4	797.3	795.3	797.3
45°	10094.8	7580.7	2880.1	1265.1	941.7	838.0	803.4	791.2	779.0	770.9	770.9
47.5°	11160.6	8233.6	2963.5	1244.8	919.4	823.8	793.3	781.1	762.8	744.4	744.4
50°	12102.3	8788.9	3075.4	1252.9	911.2	803.4	777.0	770.9	742.4	722.1	720.0
52.5°	12850.8	9216.1	3166.9	1277.4	919.4	789.2	756.6	758.7	728.2	705.8	703.8
55°	13450.9	9496.8	3142.5	1301.8	937.7	781.1	738.3	742.4	718.0	695.6	695.6
57.5°	13713.2	9393.0	2872.0	1281.4	951.9	783.1	724.1	740.4	720.0	699.7	699.7
60°	13149.8	8471.6	2365.5	1191.9	933.6	777.0	718.0	748.5	746.5	726.1	724.1
62.5°	11445.3	6822.0	1834.7	1059.7	870.6	746.5	701.7	746.5	768.9	762.8	760.7
65°	8821.5	4859.2	1401.4	917.3	785.1	695.6	659.0	699.7	730.2	738.3	736.3
67.5°	5725.7	2977.8	1080.1	783.1	689.5	636.6	604.1	622.4	628.5	628.5	624.4
70°	2815.1	1602.8	860.4	659.0	591.9	573.6	555.3	545.1	534.9	526.8	526.8
72.5°	1389.2	1047.5	707.8	557.3	510.5	502.4	498.3	486.1	478.0	467.8	463.8
75°	1027.2	852.2	602.1	469.9	439.3	431.2	439.3	429.2	427.1	419.0	414.9
77.5°	844.1	726.1	518.7	402.7	376.3	362.1	374.3	376.3	378.3	366.1	362.1
80°	685.5	614.3	433.2	333.6	309.2	299.0	307.1	323.4	327.5	309.2	301.0
82.5°	494.3	502.4	349.8	260.4	240.0	231.9	248.1	268.5	272.6	246.1	240.0
85°	414.9	419.0	268.5	185.1	164.8	152.6	179.0	199.3	213.6	187.1	181.0
87.5°	172.9	246.1	154.6	103.7	91.5	79.3	95.6	105.8	128.1	118.0	115.9
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)