

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: P190954

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-AFL-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24616.3 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 193
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

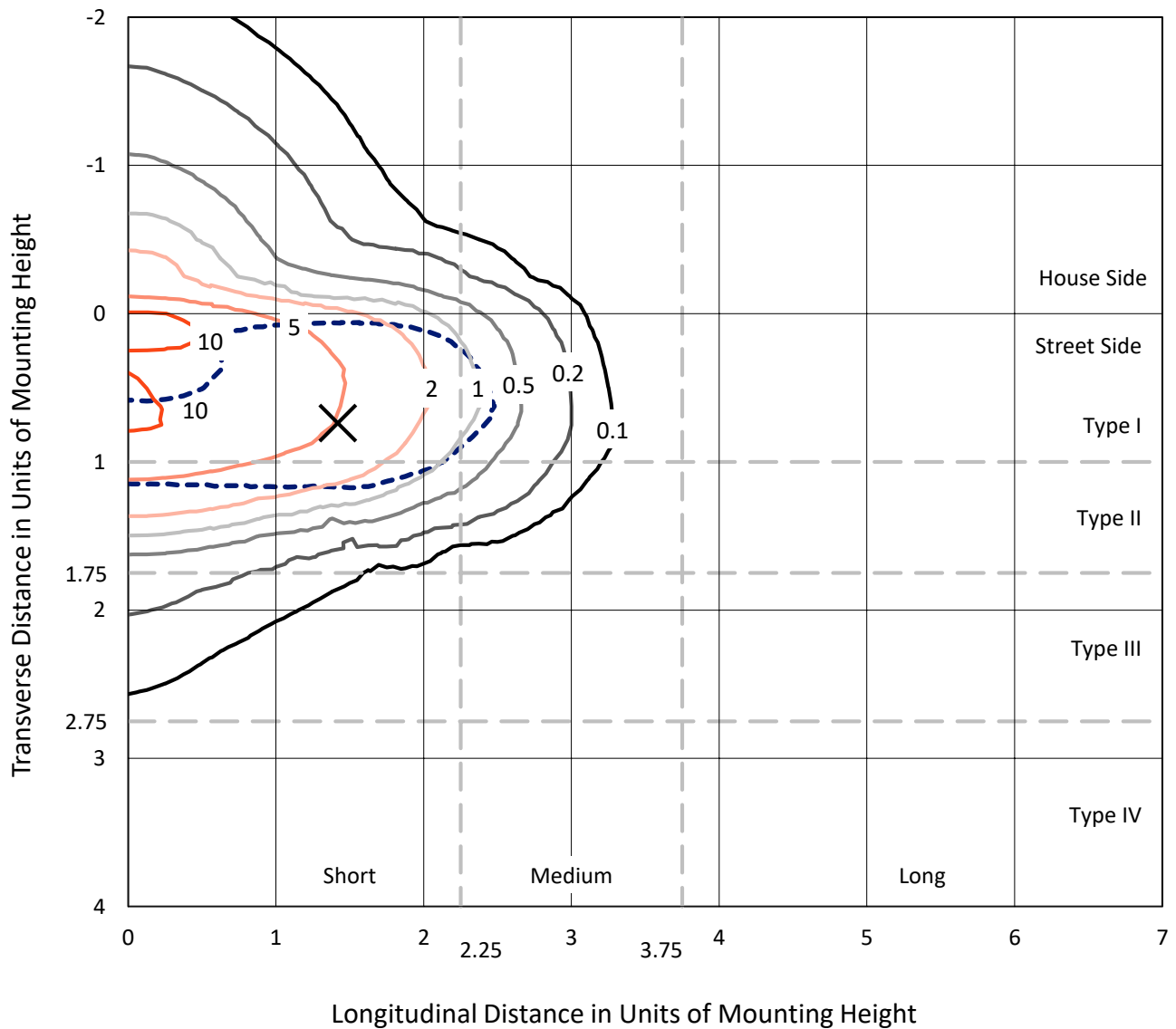


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

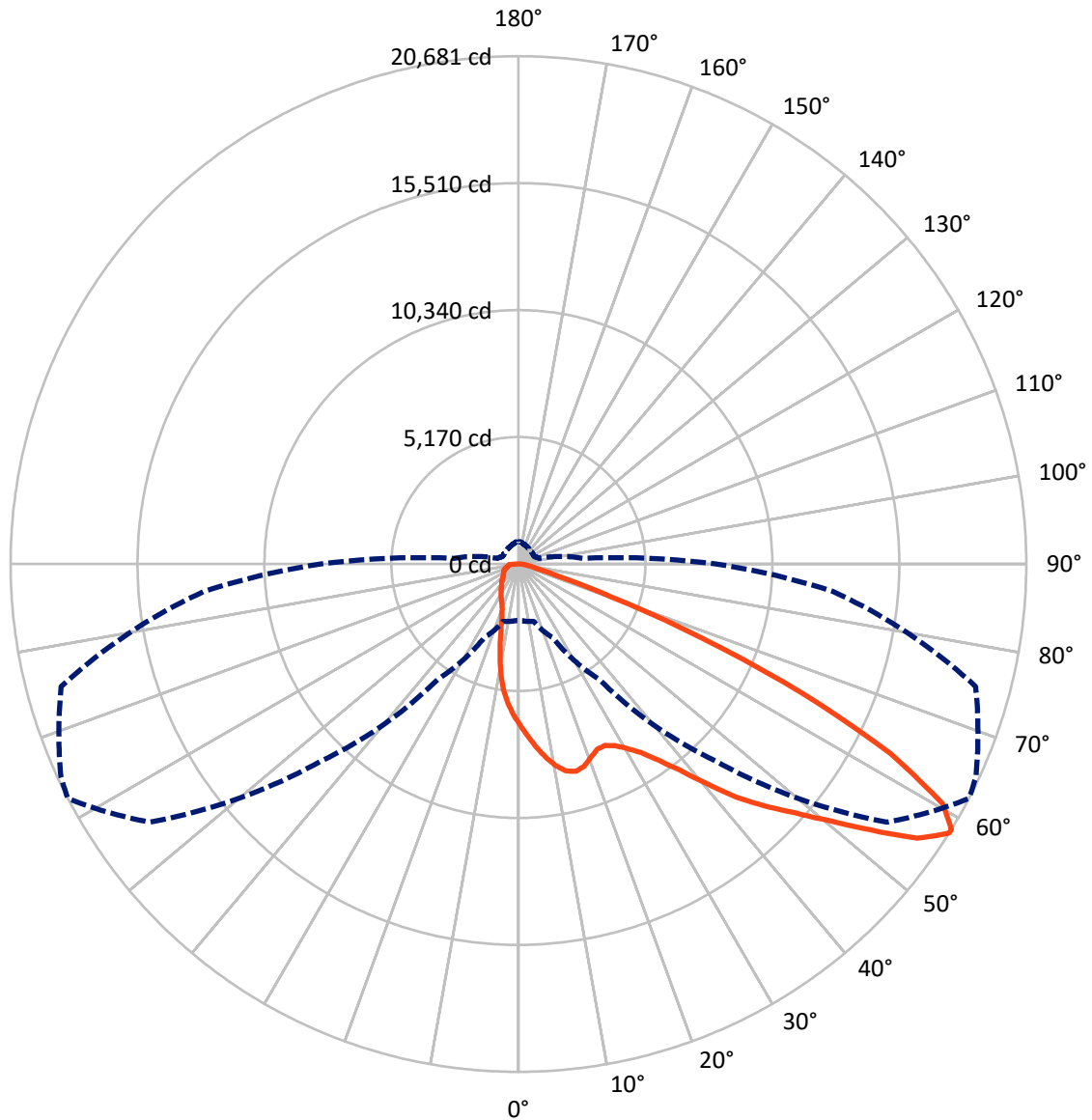


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3754.1	0.0	3754.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20862.2	0.0	20862.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	24616.3	0.0	24616.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	2.4
10°-20°	1494.8	6.1
20°-30°	2416.5	9.8
30°-40°	3836.1	15.6
40°-50°	5613.0	22.8
50°-60°	5870.8	23.8
60°-70°	3468.4	14.1
70°-80°	977.1	4.0
80°-90°	354.7	1.4
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°	24616.3	100.0
0°-180°	24616.3	100.0



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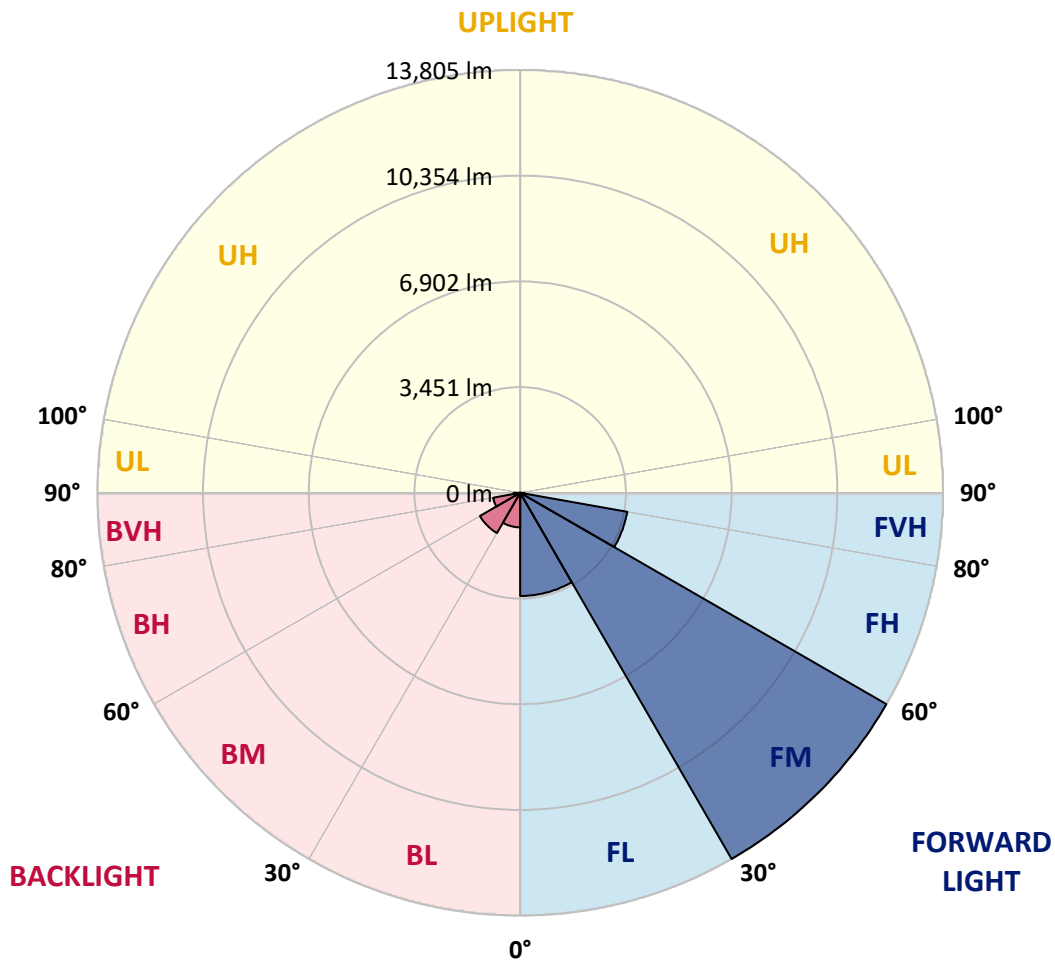
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3367.8	13.7			
FM	(30°-60°)	13804.7	56.1			
FH	(60°-80°)	3549.8	14.4			G2/5000
FVH	(80°-90°)	139.9	0.6			G2/225
BL	(0°-30°)	1128.3	4.6	B3/2500		
BM	(30°-60°)	1515.2	6.2	B2/2500		
BH	(60°-80°)	895.8	3.6	B2/1000		G2/1000
BVH	(80°-90°)	214.8	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8
2.5°	7471.9	7411.7	7373.4	7339.8	7295.8	7201.9	7075.5	6995.6	6954.9	6817.0	6653.6
5°	8204.6	8151.2	8111.8	8066.6	7987.8	7840.5	7636.5	7474.3	7394.3	7118.4	6791.5
7.5°	8032.9	8055.0	8123.4	8242.7	8344.8	8325.1	8143.1	7936.8	7831.3	7447.6	6951.5
10°	6999.0	7037.3	7155.4	7434.8	7887.0	8350.6	8492.0	8349.4	8242.7	7773.3	7116.1
12.5°	6791.5	6790.3	6799.7	6873.8	7142.8	7795.3	8503.6	8647.3	8583.6	8084.0	7284.1
15°	6876.2	6878.4	6871.5	6902.8	6986.2	7244.7	8148.9	8762.1	8807.3	8397.0	7458.0
17.5°	7098.7	7092.9	7066.2	7066.2	7096.4	7197.2	7731.6	8655.4	8864.1	8674.0	7611.1
20°	7471.9	7445.2	7374.6	7309.7	7277.2	7331.7	7560.0	8409.7	8765.6	8916.2	7737.4
22.5°	7924.0	7903.1	7788.3	7649.3	7536.9	7535.7	7648.1	8195.3	8595.1	9144.6	7844.0
25°	8508.2	8474.6	8304.2	8081.6	7884.6	7809.2	7840.5	8184.8	8502.5	9392.6	7939.1
27.5°	9194.5	9133.0	8931.3	8610.3	8320.5	8168.6	8123.4	8373.8	8587.1	9699.8	8071.2
30°	10026.8	9956.0	9697.6	9279.1	8869.9	8620.7	8524.5	8708.8	8867.6	10074.2	8283.3
32.5°	10973.8	10871.7	10572.7	10111.4	9573.5	9193.3	9036.8	9151.5	9278.0	10525.1	8548.8
35°	12282.5	12160.7	11728.3	11092.0	10484.6	9961.8	9711.4	9794.9	9917.8	11197.5	8932.5
37.5°	13175.0	13120.5	12833.0	12234.9	11574.2	10972.6	10585.4	10634.1	10703.6	12037.9	9423.9
40°	13166.9	13188.9	13194.7	13200.5	12750.8	12174.6	11758.5	11707.5	11693.6	12960.6	9982.7
42.5°	12507.3	12597.7	12889.9	13482.2	13755.7	13491.5	13110.1	12962.8	12889.9	14047.9	10575.0
45°	11497.7	11546.4	12093.5	13250.4	14270.4	14795.6	14506.9	14043.2	13911.1	15047.0	11066.5
47.5°	10977.3	11030.6	11374.8	12636.0	14264.6	15849.2	16016.1	15132.8	14896.3	15916.4	11490.7
50°	9738.1	9849.4	10282.9	11567.2	13744.2	16333.7	17593.7	16431.0	15941.9	16762.6	11916.1
52.5°	7462.6	7634.2	8119.9	9810.0	12423.8	16093.8	18856.1	18005.3	17314.4	17638.9	12281.2
55°	4707.3	4834.9	5242.8	6928.3	9938.6	14845.4	19334.8	19708.1	19093.7	18468.9	12597.7
57.5°	2559.4	2616.2	2769.2	3825.2	6464.6	12085.3	18636.9	20677.1	20422.1	19173.7	12836.5
58°	2290.5	2328.7	2423.8	3315.2	5733.2	11330.8	18327.5	20680.6	20553.0	19276.8	12855.1
60°	1699.3	1679.6	1595.0	1891.7	3191.2	7827.8	16456.6	19852.9	20227.3	19403.1	12764.7
62.5°	1493.0	1445.4	1272.8	1253.0	1552.1	3606.1	12591.9	17006.0	17890.5	18682.2	12215.3
65°	1402.6	1351.6	1129.0	1057.1	1119.7	1525.4	7417.4	12754.3	13863.5	16496.0	10810.3
67.5°	1335.4	1269.3	1037.5	939.0	943.6	1008.4	2973.2	8032.9	9281.3	12524.7	8408.6
70°	1270.4	1198.6	959.8	846.2	819.5	797.5	1182.3	4021.1	5153.6	7911.3	5361.1
72.5°	1200.8	1130.2	891.4	773.1	721.0	647.9	772.0	1644.8	2297.4	3742.9	2432.0
75°	1100.1	1036.2	823.0	708.3	634.0	536.6	583.1	859.0	1030.5	1490.6	1171.9
77.5°	976.0	923.8	746.5	654.9	562.2	435.9	448.6	595.8	660.7	853.1	696.6
80°	701.3	719.9	664.2	588.8	500.7	353.5	344.2	434.7	469.4	548.3	453.3
82.5°	492.7	503.1	549.4	481.1	413.8	278.2	253.9	306.1	326.8	360.5	244.6
85°	339.6	328.1	376.8	335.0	299.1	185.5	173.9	207.5	220.2	223.7	126.3
87.5°	204.0	204.0	217.9	179.6	161.1	96.3	93.9	118.3	126.3	120.5	69.6
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°	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8	6538.8
2.5°	6556.2	6473.9	6298.8	6158.6	5981.3	5797.0	5693.7	5583.7	5508.3	5453.9	5540.8
5°	6606.0	6437.9	6076.3	5733.2	5354.1	4960.1	4661.0	4382.7	4189.2	4068.7	4182.2
7.5°	6684.9	6426.4	5850.3	5263.7	4583.3	3927.2	3340.7	2973.2	2758.8	2653.3	2719.4
10°	6775.3	6407.9	5584.8	4627.3	3653.7	2827.2	2389.0	2240.7	2192.0	2172.2	2181.5
12.5°	6850.6	6368.4	5259.1	3857.6	2743.8	2232.6	2106.2	2102.7	2113.1	2115.5	2118.9
15°	6904.0	6310.5	4775.7	3055.6	2194.3	2034.3	2027.4	2048.3	2067.9	2076.1	2080.7
17.5°	6939.9	6191.1	4229.8	2415.7	1965.9	1938.1	1954.3	1981.0	2001.9	2007.6	2012.3
20°	6936.4	6016.1	3579.5	2014.6	1841.9	1841.9	1869.7	1890.6	1891.7	1884.8	1888.3
22.5°	6900.5	5776.1	2948.9	1801.3	1731.8	1751.5	1779.3	1759.6	1678.5	1625.2	1628.6
25°	6840.2	5489.8	2408.7	1665.7	1629.8	1664.5	1656.5	1508.0	1392.1	1340.0	1340.0
27.5°	6786.9	5151.3	1993.7	1547.5	1527.8	1570.6	1426.9	1292.5	1243.8	1219.5	1211.3
30°	6748.6	4786.2	1716.7	1433.9	1431.5	1400.2	1238.0	1200.8	1192.8	1173.1	1166.2
32.5°	6757.9	4416.4	1539.3	1334.2	1342.3	1198.6	1147.5	1155.7	1148.8	1127.9	1118.6
35°	6834.4	4065.2	1423.4	1243.8	1219.5	1082.7	1094.3	1109.3	1107.0	1078.0	1068.8
37.5°	6971.2	3732.5	1346.9	1168.4	1064.1	1024.7	1043.2	1066.4	1060.6	1041.0	1034.0
40°	7114.9	3419.5	1284.3	1109.3	972.5	985.3	1001.5	1014.3	1020.1	1025.8	1021.2
42.5°	7255.2	3092.7	1207.8	1049.0	934.3	948.2	955.1	967.9	999.2	1021.2	1020.1
45°	7338.6	2785.5	1129.0	963.2	904.2	912.3	907.7	933.1	971.4	1007.3	1008.4
47.5°	7431.3	2546.6	1066.4	884.4	875.1	881.0	867.1	892.5	927.3	971.4	976.0
50°	7543.9	2404.1	1016.6	821.8	835.8	835.8	832.3	855.5	904.2	955.1	964.4
52.5°	7671.3	2376.3	974.9	776.6	796.4	795.1	798.6	833.4	886.8	936.6	944.7
55°	7826.6	2451.6	929.7	743.1	758.1	762.7	774.3	813.8	859.0	915.7	919.2
57.5°	8007.5	2604.6	893.8	716.4	723.3	738.4	756.9	792.9	841.6	904.2	907.7
58°	8037.6	2637.1	887.9	714.0	716.4	733.8	754.6	789.4	838.1	906.4	909.9
60°	8038.8	2744.9	875.1	703.6	689.7	718.7	741.8	776.6	832.3	914.6	922.7
62.5°	7753.7	2743.8	865.9	688.5	661.8	697.9	724.5	765.1	826.4	934.3	950.5
65°	6827.5	2493.3	821.8	665.3	639.9	679.2	709.4	756.9	842.7	1020.1	1030.5
67.5°	5340.2	2043.5	739.6	632.9	610.9	660.7	700.1	755.8	860.1	1039.7	1046.7
70°	3530.8	1528.9	649.2	595.8	580.7	638.7	704.8	795.1	840.4	998.0	979.5
72.5°	1832.6	1073.4	576.1	549.4	545.9	619.0	772.0	790.5	820.7	939.0	915.7
75°	962.1	745.3	512.4	498.5	504.2	614.4	911.1	769.7	795.1	898.4	942.4
77.5°	588.8	601.6	457.9	452.0	463.7	600.5	909.9	743.1	758.1	826.4	875.1
80°	394.1	488.0	416.1	417.3	425.4	549.4	817.2	701.3	712.9	781.2	831.1
82.5°	249.2	288.7	377.9	397.6	387.2	453.3	694.4	638.7	654.9	893.8	944.7
85°	126.3	180.9	328.1	382.5	348.9	317.6	563.3	559.9	567.9	644.5	673.5
87.5°	58.0	99.7	256.1	333.8	263.1	198.2	409.2	415.0	447.4	457.9	457.9
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)