

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: P300445

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300445
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: GLNA-AF-06-LED-E1-AFL-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20833.7 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

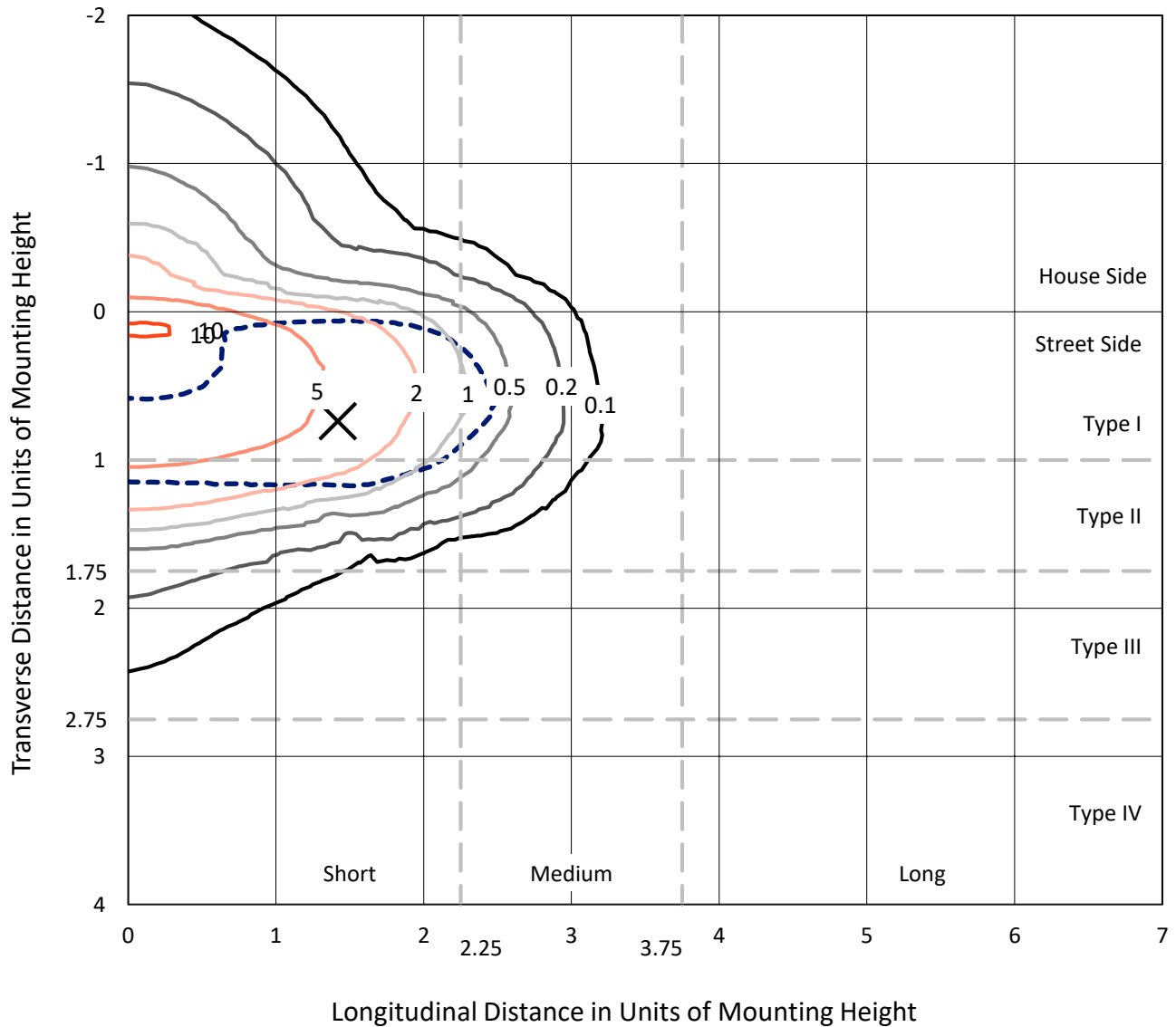
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

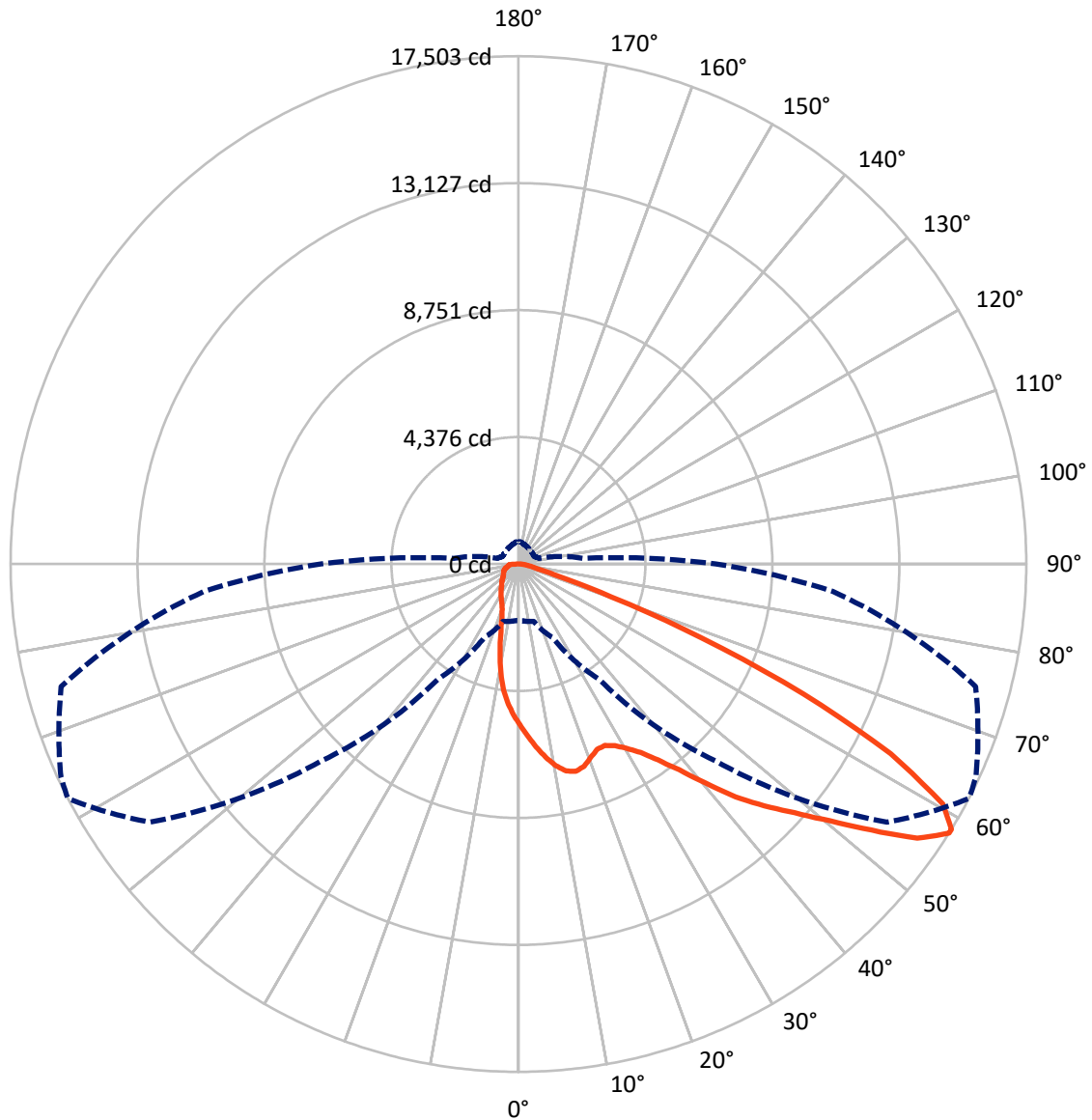
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	3177.2	0.0	3177.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17656.5	0.0	17656.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	20833.7	0.0	20833.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	2.4
10°-20°	1265.1	6.1
20°-30°	2045.1	9.8
30°-40°	3246.7	15.6
40°-50°	4750.5	22.8
50°-60°	4968.7	23.8
60°-70°	2935.5	14.1
70°-80°	826.9	4.0
80°-90°	300.2	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°	20833.7	100.0
0°-180°	20833.7	100.0



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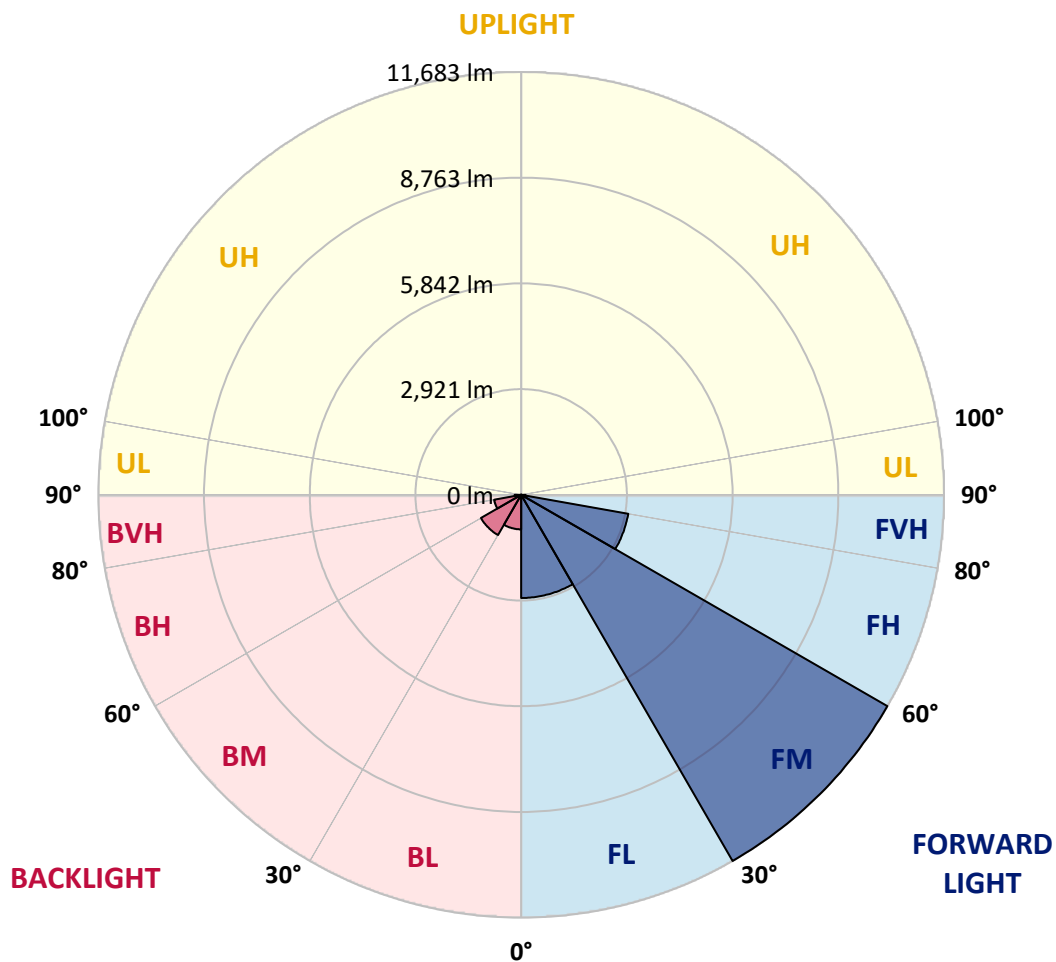
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2850.3	13.7			
FM	(30°-60°)	11683.4	56.1			
FH	(60°-80°)	3004.3	14.4			G2/5000
FVH	(80°-90°)	118.4	0.6			G2/225
BL	(0°-30°)	954.9	4.6	B2/1000		
BM	(30°-60°)	1282.4	6.2	B2/2500		
BH	(60°-80°)	758.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	181.8	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1
2.5°	6323.8	6272.8	6240.4	6212.0	6174.7	6095.2	5988.3	5920.6	5886.2	5769.5	5631.2
5°	6943.8	6898.7	6865.3	6827.1	6760.4	6635.8	6463.1	6325.8	6258.1	6024.6	5747.9
7.5°	6798.6	6817.3	6875.1	6976.2	7062.5	7045.8	6891.8	6717.2	6627.9	6303.2	5883.3
10°	5923.5	5955.9	6056.0	6292.4	6675.0	7067.4	7187.1	7066.4	6976.2	6578.9	6022.6
12.5°	5747.9	5746.9	5754.8	5817.6	6045.2	6597.5	7196.9	7318.6	7264.6	6841.8	6164.9
15°	5819.5	5821.5	5815.6	5842.1	5912.7	6131.5	6896.7	7415.7	7454.0	7106.7	6312.0
17.5°	6007.9	6003.0	5980.4	5980.4	6005.9	6091.3	6543.5	7325.4	7502.0	7341.1	6441.5
20°	6323.8	6301.2	6241.4	6186.4	6159.0	6205.1	6398.4	7117.5	7418.6	7546.2	6548.5
22.5°	6706.4	6688.7	6591.6	6473.9	6378.7	6377.7	6472.9	6936.0	7274.4	7739.4	6638.7
25°	7200.8	7172.4	7028.2	6839.8	6673.0	6609.3	6635.8	6927.1	7195.9	7949.4	6719.2
27.5°	7781.6	7729.6	7558.9	7287.2	7041.9	6913.4	6875.1	7087.0	7267.6	8209.4	6831.0
30°	8486.0	8426.2	8207.4	7853.2	7506.9	7296.0	7214.6	7370.6	7505.0	8526.2	7010.5
32.5°	9287.5	9201.2	8948.1	8557.6	8102.4	7780.6	7648.2	7745.3	7852.3	8907.9	7235.2
35°	10395.1	10292.1	9926.2	9387.6	8873.5	8431.1	8219.2	8289.8	8393.8	9476.9	7559.9
37.5°	11150.5	11104.4	10861.1	10354.9	9795.7	9286.5	8958.9	9000.1	9058.9	10188.1	7975.9
40°	11143.6	11162.3	11167.2	11172.1	10791.5	10303.9	9951.7	9908.5	9896.7	10969.0	8448.7
42.5°	10585.4	10662.0	10909.2	11410.5	11642.0	11418.3	11095.6	10971.0	10909.2	11889.2	8950.0
45°	9730.9	9772.2	10235.2	11214.3	12077.6	12522.0	12277.7	11885.3	11773.5	12734.9	9366.0
47.5°	9290.5	9335.6	9627.0	10694.3	12072.7	13413.8	13555.0	12807.5	12607.4	13470.7	9725.1
50°	8241.7	8335.9	8702.8	9789.8	11632.2	13823.9	14890.2	13906.3	13492.3	14186.8	10085.1
52.5°	6315.9	6461.1	6872.2	8302.6	10514.8	13620.8	15958.6	15238.5	14653.8	14928.5	10394.1
55°	3984.0	4091.9	4437.2	5863.7	8411.4	12564.2	16363.8	16679.7	16159.7	15630.9	10662.0
57.5°	2166.1	2214.2	2343.7	3237.4	5471.3	10228.3	15773.2	17499.8	17284.0	16227.4	10864.1
58°	1938.5	1970.9	2051.4	2805.8	4852.2	9589.7	15511.2	17502.8	17394.8	16314.7	10879.7
60°	1438.2	1421.5	1349.9	1601.1	2700.8	6625.0	13927.8	16802.3	17119.2	16421.6	10803.2
62.5°	1263.6	1223.4	1077.2	1060.5	1313.6	3052.0	10657.1	14392.9	15141.4	15811.4	10338.2
65°	1187.1	1143.9	955.5	894.7	947.7	1291.1	6277.7	10794.4	11733.3	13961.2	9149.2
67.5°	1130.2	1074.2	878.0	794.6	798.6	853.5	2516.4	6798.6	7855.2	10600.2	7116.5
70°	1075.2	1014.4	812.3	716.2	693.6	675.0	1000.7	3403.2	4361.7	6695.6	4537.3
72.5°	1016.4	956.5	754.4	654.4	610.2	548.4	653.4	1392.1	1944.4	3167.8	2058.2
75°	931.0	877.1	696.5	599.4	536.6	454.2	493.5	727.0	872.1	1261.6	991.8
77.5°	826.0	781.9	631.8	554.3	475.8	368.9	379.7	504.3	559.2	722.0	589.6
80°	593.5	609.2	562.1	498.4	423.8	299.2	291.4	367.9	397.3	464.0	383.6
82.5°	416.9	425.8	465.0	407.1	350.2	235.4	214.8	259.0	276.7	305.1	207.0
85°	287.4	277.6	318.8	283.5	253.1	157.0	147.2	175.6	186.4	189.3	106.9
87.5°	172.7	172.7	184.4	152.1	136.4	81.4	79.5	100.1	106.9	102.0	58.9
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°	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1	5534.1
2.5°	5548.8	5479.1	5331.0	5212.3	5062.2	4906.2	4818.9	4725.7	4661.9	4615.8	4689.4
5°	5591.0	5448.7	5142.6	4852.2	4531.4	4197.9	3944.8	3709.3	3545.5	3443.5	3539.6
7.5°	5657.7	5438.9	4951.3	4454.9	3879.0	3323.8	2827.4	2516.4	2334.9	2245.6	2301.5
10°	5734.2	5423.2	4726.7	3916.3	3092.2	2392.8	2021.9	1896.4	1855.1	1838.5	1846.3
12.5°	5798.0	5389.8	4451.0	3264.9	2322.1	1889.5	1782.6	1779.6	1788.4	1790.4	1793.3
15°	5843.1	5340.8	4041.9	2586.0	1857.1	1721.7	1715.8	1733.5	1750.2	1757.0	1761.0
17.5°	5873.5	5239.7	3579.8	2044.5	1663.8	1640.3	1654.0	1676.6	1694.3	1699.2	1703.1
20°	5870.6	5091.6	3029.5	1705.0	1558.9	1558.9	1582.4	1600.1	1601.1	1595.2	1598.1
22.5°	5840.1	4888.5	2495.8	1524.5	1465.7	1482.4	1505.9	1489.2	1420.5	1375.4	1378.4
25°	5789.1	4646.2	2038.6	1409.8	1379.3	1408.8	1401.9	1276.3	1178.2	1134.1	1134.1
27.5°	5744.0	4359.7	1687.4	1309.7	1293.0	1329.3	1207.7	1093.9	1052.7	1032.1	1025.2
30°	5711.6	4050.7	1452.9	1213.5	1211.6	1185.1	1047.8	1016.4	1009.5	992.8	986.9
32.5°	5719.5	3737.8	1302.8	1129.2	1136.0	1014.4	971.2	978.1	972.2	954.6	946.7
35°	5784.2	3440.5	1204.7	1052.7	1032.1	916.3	926.1	938.9	936.9	912.4	904.5
37.5°	5900.0	3159.0	1140.0	988.9	900.6	867.2	882.9	902.6	897.7	881.0	875.1
40°	6021.6	2894.1	1087.0	938.9	823.1	833.9	847.6	858.4	863.3	868.2	864.3
42.5°	6140.3	2617.4	1022.2	887.8	790.7	802.5	808.4	819.2	845.7	864.3	863.3
45°	6211.0	2357.4	955.5	815.2	765.2	772.1	768.2	789.7	822.1	852.5	853.5
47.5°	6289.5	2155.3	902.6	748.5	740.7	745.6	733.8	755.4	784.8	822.1	826.0
50°	6384.6	2034.7	860.4	695.6	707.3	707.3	704.4	724.0	765.2	808.4	816.2
52.5°	6492.5	2011.1	825.1	657.3	674.0	673.0	675.9	705.4	750.5	792.7	799.5
55°	6624.0	2074.9	786.8	628.8	641.6	645.5	655.3	688.7	727.0	775.0	778.0
57.5°	6777.0	2204.4	756.4	606.3	612.2	624.9	640.6	671.0	712.2	765.2	768.2
58°	6802.5	2231.9	751.5	604.3	606.3	621.0	638.7	668.1	709.3	767.2	770.1
60°	6803.5	2323.1	740.7	595.5	583.7	608.2	627.9	657.3	704.4	774.0	780.9
62.5°	6562.2	2322.1	732.8	582.7	560.2	590.6	613.2	647.5	699.5	790.7	804.5
65°	5778.3	2110.2	695.6	563.1	541.5	574.9	600.4	640.6	713.2	863.3	872.1
67.5°	4519.7	1729.6	625.9	535.6	517.0	559.2	592.5	639.6	727.9	880.0	885.9
70°	2988.3	1294.0	549.4	504.3	491.5	540.6	596.5	673.0	711.3	844.7	829.0
72.5°	1551.0	908.4	487.6	465.0	462.1	523.9	653.4	669.1	694.6	794.6	775.0
75°	814.3	630.8	433.6	421.8	426.8	520.0	771.1	651.4	673.0	760.3	797.6
77.5°	498.4	509.2	387.5	382.6	392.4	508.2	770.1	628.8	641.6	699.5	740.7
80°	333.6	413.0	352.2	353.2	360.0	465.0	691.6	593.5	603.3	661.2	703.4
82.5°	210.9	244.3	319.8	336.5	327.7	383.6	587.6	540.6	554.3	756.4	799.5
85°	106.9	153.0	277.6	323.7	295.3	268.8	476.8	473.8	480.7	545.5	570.0
87.5°	49.1	84.4	216.8	282.5	222.7	167.8	346.3	351.2	378.7	387.5	387.5
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)