

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: P300458

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300458
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-08-LED-E1-AFL-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31079.2 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

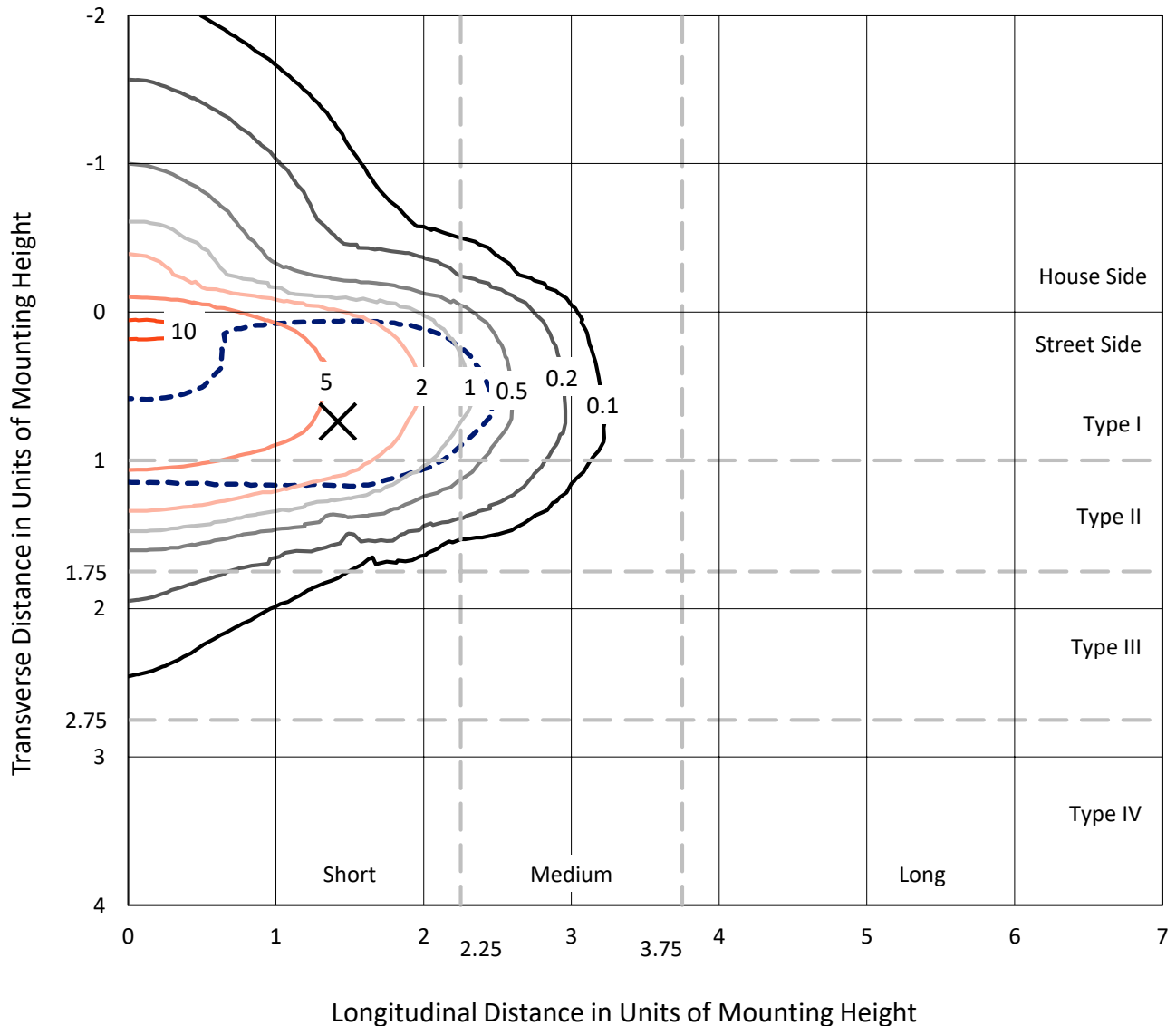
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

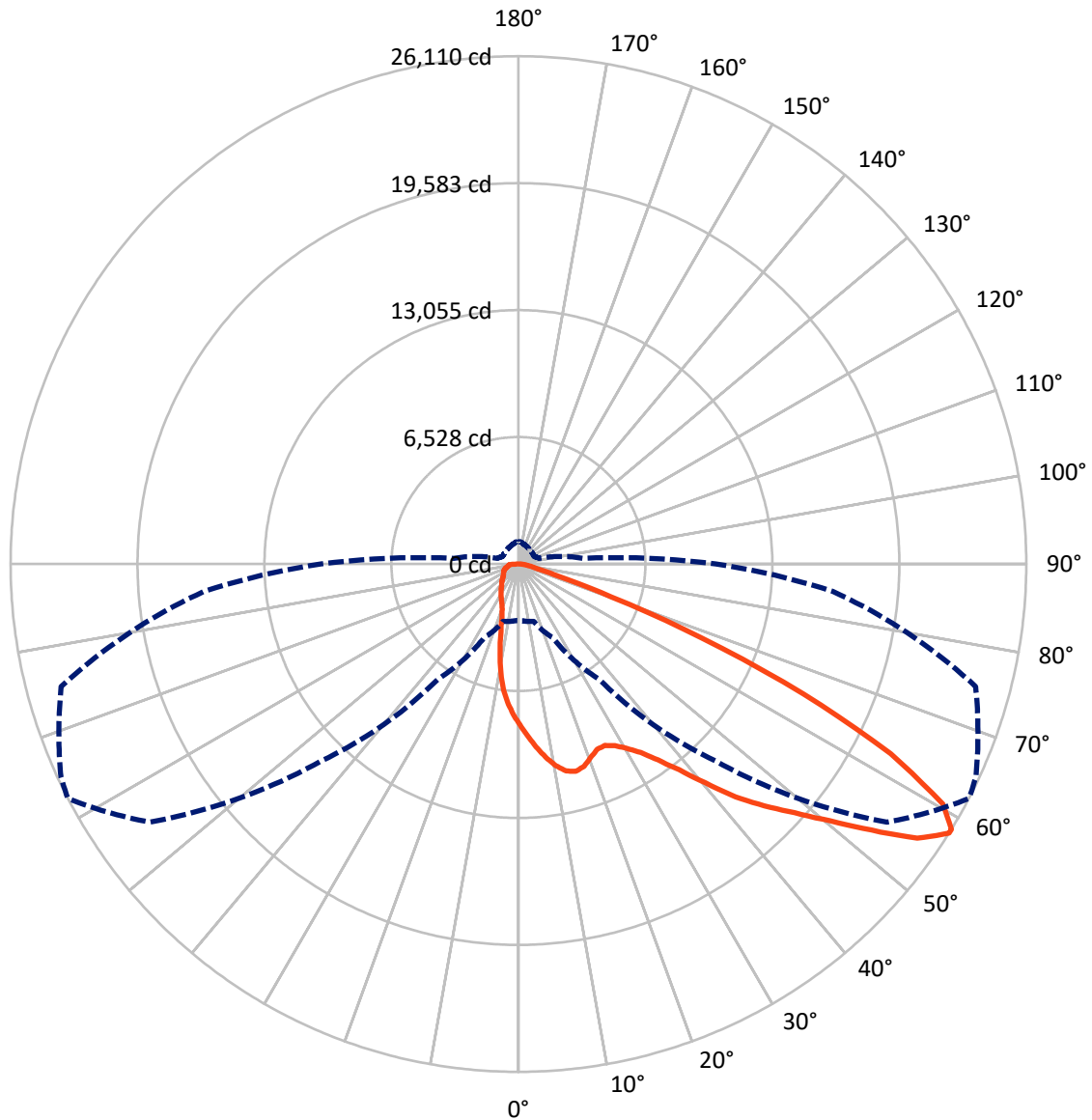
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	4739.7	0.0	4739.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26339.5	0.0	26339.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	31079.2	0.0	31079.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.3	2.4
10°-20°	1887.3	6.1
20°-30°	3050.9	9.8
30°-40°	4843.3	15.6
40°-50°	7086.7	22.8
50°-60°	7412.1	23.8
60°-70°	4379.1	14.1
70°-80°	1233.6	4.0
80°-90°	447.9	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°	31079.2	100.0
0°-180°	31079.2	100.0

Coefficient of Utilization



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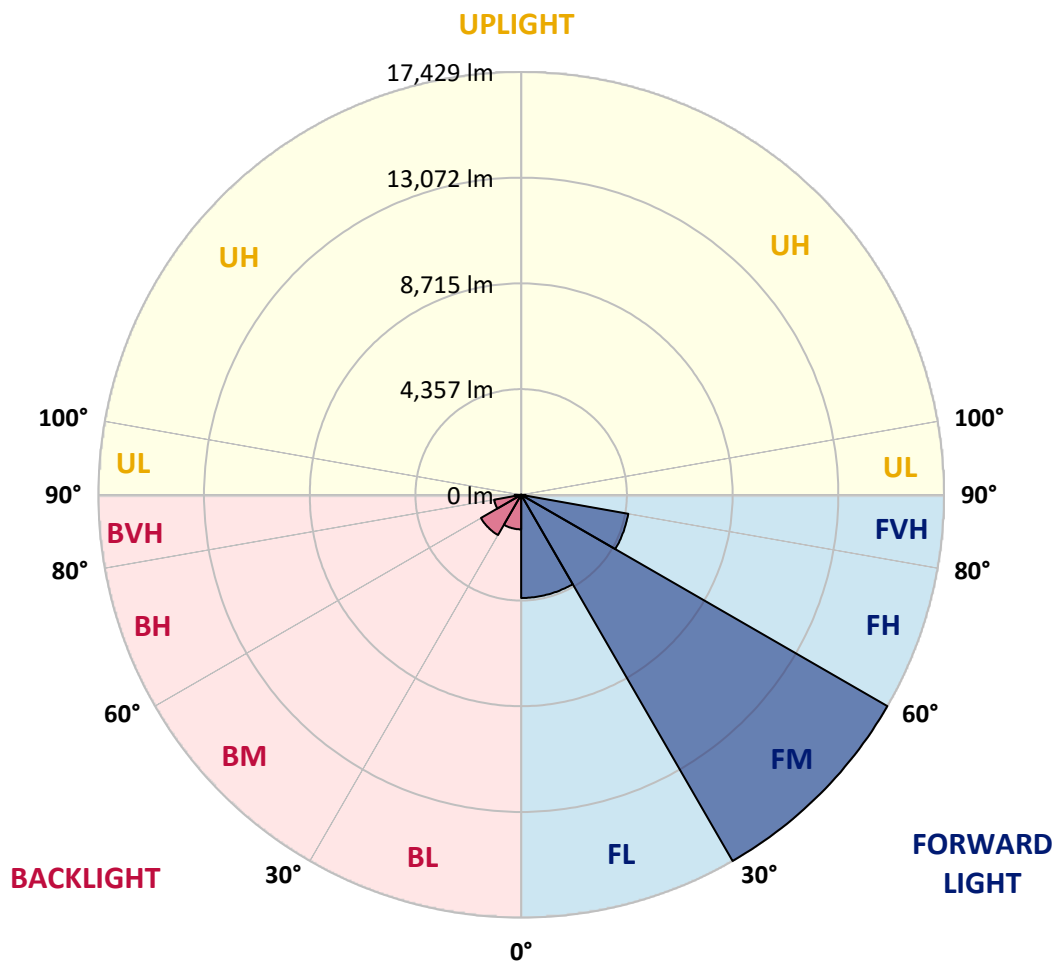
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.0	13.7			
FM (30°-60°)	17429.0	56.1			
FH (60°-80°)	4481.7	14.4			G2/5000
FVH (80°-90°)	176.7	0.6			G2/225
BL (0°-30°)	1424.5	4.6	B3/2500		
BM (30°-60°)	1913.1	6.2	B2/2500		
BH (60°-80°)	1130.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	271.2	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6
2.5°	9433.7	9357.6	9309.3	9266.8	9211.2	9092.7	8933.2	8832.2	8780.9	8606.8	8400.4
5°	10358.6	10291.3	10241.5	10184.4	10084.9	9899.1	9641.5	9436.6	9335.6	8987.3	8574.6
7.5°	10142.0	10169.8	10256.1	10406.9	10535.7	10510.8	10281.0	10020.5	9887.3	9402.9	8776.6
10°	8836.6	8884.9	9034.1	9386.8	9957.6	10543.0	10721.5	10541.5	10406.9	9814.2	8984.4
12.5°	8574.6	8573.1	8584.8	8678.5	9018.0	9842.0	10736.2	10917.6	10837.2	10206.4	9196.6
15°	8681.4	8684.4	8675.6	8715.1	8820.5	9146.8	10288.3	11062.5	11119.6	10601.5	9416.1
17.5°	8962.4	8955.1	8921.4	8921.4	8959.5	9086.8	9761.5	10927.9	11191.3	10951.3	9609.3
20°	9433.7	9400.0	9310.7	9228.8	9187.8	9256.6	9544.9	10617.6	11066.9	11257.2	9768.8
22.5°	10004.4	9978.1	9833.2	9657.6	9515.6	9514.2	9656.1	10346.9	10851.8	11545.5	9903.4
25°	10742.0	10699.6	10484.5	10203.5	9954.7	9859.5	9899.1	10333.7	10734.7	11858.7	10023.5
27.5°	11608.4	11530.8	11276.2	10870.8	10504.9	10313.2	10256.1	10572.3	10841.5	12246.5	10190.3
30°	12659.2	12569.9	12243.6	11715.2	11198.6	10884.0	10762.5	10995.2	11195.7	12719.2	10458.1
32.5°	13854.9	13726.1	13348.5	12766.0	12087.0	11606.9	11409.4	11554.3	11713.8	13288.5	10793.2
35°	15507.2	15353.5	14807.6	14004.1	13237.3	12577.2	12261.1	12366.5	12521.6	14137.3	11277.7
37.5°	16634.0	16565.3	16202.3	15447.1	14613.0	13853.4	13364.6	13426.1	13513.9	15198.4	11898.2
40°	16623.8	16651.6	16658.9	16666.2	16098.4	15371.0	14845.7	14781.3	14763.7	16363.3	12603.6
42.5°	15791.1	15905.2	16274.0	17021.9	17367.2	17033.6	16552.1	16366.2	16274.0	17736.0	13351.4
45°	14516.4	14577.8	15268.6	16729.2	18017.0	18680.0	18315.6	17730.2	17563.4	18997.6	13972.0
47.5°	13859.3	13926.6	14361.2	15953.5	18009.7	20010.3	20221.1	19105.9	18807.3	20095.2	14507.6
50°	12294.8	12435.3	12982.6	14604.2	17352.6	20622.1	22212.9	20745.0	20127.4	21163.5	15044.7
52.5°	9422.0	9638.6	10251.8	12385.5	15685.7	20319.1	23806.6	22732.4	21860.2	22269.9	15505.7
55°	5943.2	6104.2	6619.4	8747.3	12548.0	18742.9	24411.0	24882.3	24106.6	23317.8	15905.2
57.5°	3231.4	3303.1	3496.3	4829.5	8161.9	15258.4	23530.0	26105.8	25783.8	24207.6	16206.7
58°	2891.9	2940.2	3060.2	4185.6	7238.4	14305.6	23139.3	26110.1	25949.2	24337.9	16230.1
60°	2145.5	2120.6	2013.8	2388.4	4029.0	9883.0	20777.2	25065.2	25537.9	24497.4	16116.0
62.5°	1885.0	1825.0	1606.9	1582.0	1959.6	4552.9	15897.9	21470.9	22587.5	23587.1	15422.3
65°	1770.8	1706.4	1425.4	1334.7	1413.7	1926.0	9364.9	16102.8	17503.4	20826.9	13648.5
67.5°	1685.9	1602.5	1309.8	1185.4	1191.3	1273.2	3753.9	10142.0	11718.2	15813.0	10616.2
70°	1604.0	1513.2	1211.8	1068.3	1034.7	1006.9	1492.8	5076.9	6506.7	9988.3	6768.6
72.5°	1516.2	1426.9	1125.4	976.1	910.3	818.1	974.7	2076.7	2900.6	4725.6	3070.4
75°	1388.9	1308.4	1039.1	894.2	800.5	677.6	736.1	1084.4	1301.0	1882.0	1479.6
77.5°	1232.3	1166.4	942.5	826.9	709.8	550.3	566.4	752.2	834.2	1077.1	879.6
80°	885.4	908.8	838.6	743.5	632.2	446.4	434.7	548.8	592.7	692.2	572.2
82.5°	622.0	635.2	693.7	607.3	522.5	351.2	320.5	386.4	412.7	455.1	308.8
85°	428.8	414.2	475.6	422.9	377.6	234.2	219.5	262.0	278.1	282.5	159.5
87.5°	257.6	257.6	275.1	226.8	203.4	121.5	118.5	149.3	159.5	152.2	87.8
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°	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6	8255.6
2.5°	8277.5	8173.6	7952.6	7775.5	7551.6	7318.9	7188.7	7049.6	6954.5	6885.7	6995.5
5°	8340.4	8128.2	7671.6	7238.4	6759.9	6262.3	5884.7	5533.5	5289.1	5136.9	5280.3
7.5°	8440.0	8113.6	7386.2	6645.7	5786.6	4958.3	4217.8	3753.9	3483.1	3349.9	3433.4
10°	8554.1	8090.2	7051.1	5842.3	4612.9	3569.5	3016.3	2828.9	2767.5	2742.6	2754.3
12.5°	8649.2	8040.4	6639.9	4870.5	3464.1	2818.7	2659.2	2654.8	2667.9	2670.9	2675.3
15°	8716.6	7967.2	6029.6	3857.8	2770.4	2568.4	2559.6	2586.0	2610.9	2621.1	2627.0
17.5°	8761.9	7816.5	5340.3	3049.9	2482.1	2447.0	2467.4	2501.1	2527.4	2534.8	2540.6
20°	8757.5	7595.5	4519.3	2543.5	2325.5	2325.5	2360.6	2387.0	2388.4	2379.6	2384.0
22.5°	8712.2	7292.6	3723.1	2274.3	2186.5	2211.3	2246.5	2221.6	2119.1	2051.8	2056.2
25°	8636.1	6931.1	3041.1	2103.0	2057.7	2101.6	2091.3	1904.0	1757.7	1691.8	1691.8
27.5°	8568.7	6503.8	2517.2	1953.8	1928.9	1983.0	1801.6	1631.8	1570.3	1539.6	1529.3
30°	8520.4	6042.8	2167.4	1810.3	1807.4	1767.9	1563.0	1516.2	1505.9	1481.1	1472.3
32.5°	8532.2	5575.9	1943.5	1684.5	1694.7	1513.2	1448.9	1459.1	1450.3	1424.0	1412.3
35°	8628.7	5132.5	1797.2	1570.3	1539.6	1366.9	1381.5	1400.6	1397.6	1361.0	1349.3
37.5°	8801.4	4712.4	1700.6	1475.2	1343.5	1293.7	1317.1	1346.4	1339.1	1314.2	1305.4
40°	8982.9	4317.3	1621.5	1400.6	1227.9	1244.0	1264.5	1280.6	1287.9	1295.2	1289.3
42.5°	9160.0	3904.6	1525.0	1324.5	1179.6	1197.1	1205.9	1222.0	1261.5	1289.3	1287.9
45°	9265.4	3516.8	1425.4	1216.2	1141.5	1151.8	1145.9	1178.1	1226.4	1271.8	1273.2
47.5°	9382.4	3215.3	1346.4	1116.6	1104.9	1112.3	1094.7	1126.9	1170.8	1226.4	1232.3
50°	9524.4	3035.3	1283.5	1037.6	1055.2	1055.2	1050.8	1080.1	1141.5	1205.9	1217.6
52.5°	9685.4	3000.2	1230.8	980.5	1005.4	1004.0	1008.3	1052.3	1119.6	1182.5	1192.7
55°	9881.5	3095.3	1173.7	938.1	957.1	963.0	977.6	1027.4	1084.4	1156.2	1160.5
57.5°	10109.8	3288.5	1128.4	904.4	913.2	932.2	955.7	1001.0	1062.5	1141.5	1145.9
58°	10147.8	3329.4	1121.0	901.5	904.4	926.4	952.7	996.6	1058.1	1144.5	1148.8
60°	10149.3	3465.5	1104.9	888.3	870.8	907.4	936.6	980.5	1050.8	1154.7	1164.9
62.5°	9789.3	3464.1	1093.2	869.3	835.7	881.0	914.7	965.9	1043.5	1179.6	1200.1
65°	8620.0	3148.0	1037.6	840.0	807.8	857.6	895.7	955.7	1064.0	1287.9	1301.0
67.5°	6742.3	2580.1	933.7	799.1	771.3	834.2	883.9	954.2	1085.9	1312.8	1321.5
70°	4457.8	1930.3	819.6	752.2	733.2	806.4	889.8	1004.0	1061.0	1260.1	1236.7
72.5°	2313.8	1355.2	727.4	693.7	689.3	781.5	974.7	998.1	1036.2	1185.4	1156.2
75°	1214.7	941.0	646.9	629.3	636.6	775.7	1150.3	971.8	1004.0	1134.2	1189.8
77.5°	743.5	759.6	578.1	570.8	585.4	758.1	1148.8	938.1	957.1	1043.5	1104.9
80°	497.6	616.1	525.4	526.9	537.1	693.7	1031.8	885.4	900.0	986.4	1049.3
82.5°	314.7	364.4	477.1	502.0	488.8	572.2	876.6	806.4	826.9	1128.4	1192.7
85°	159.5	228.3	414.2	483.0	440.5	401.0	711.3	706.9	717.1	813.7	850.3
87.5°	73.2	125.9	323.4	421.5	332.2	250.3	516.6	523.9	564.9	578.1	578.1
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)