

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: P300389

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300389
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-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29406.6 lumens
Efficiency: N/A
Efficacy: 118.1 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 - G3

Input Watts (W): 249
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

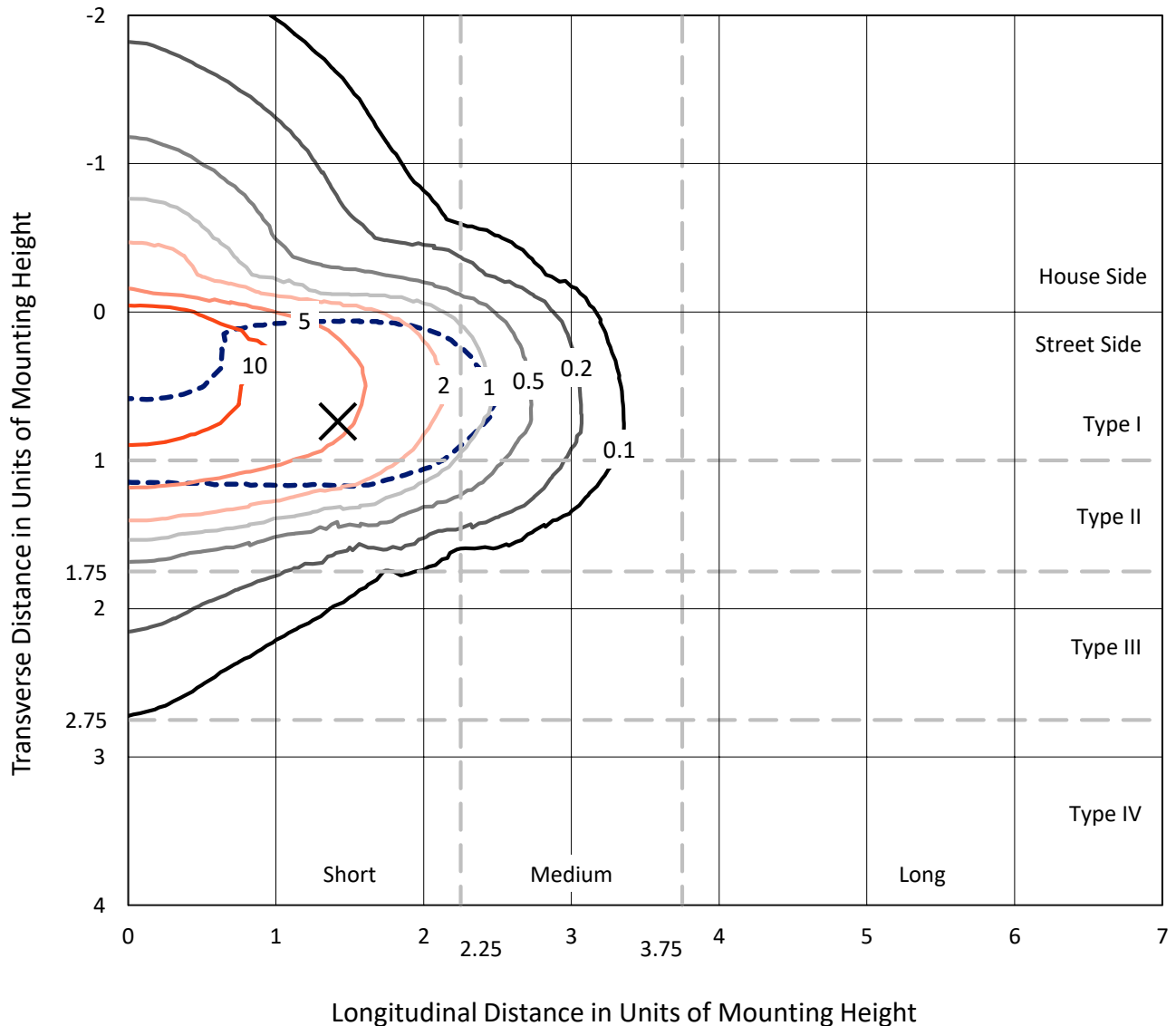


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Iso-Footcandle Lines of Horizontal Illumination

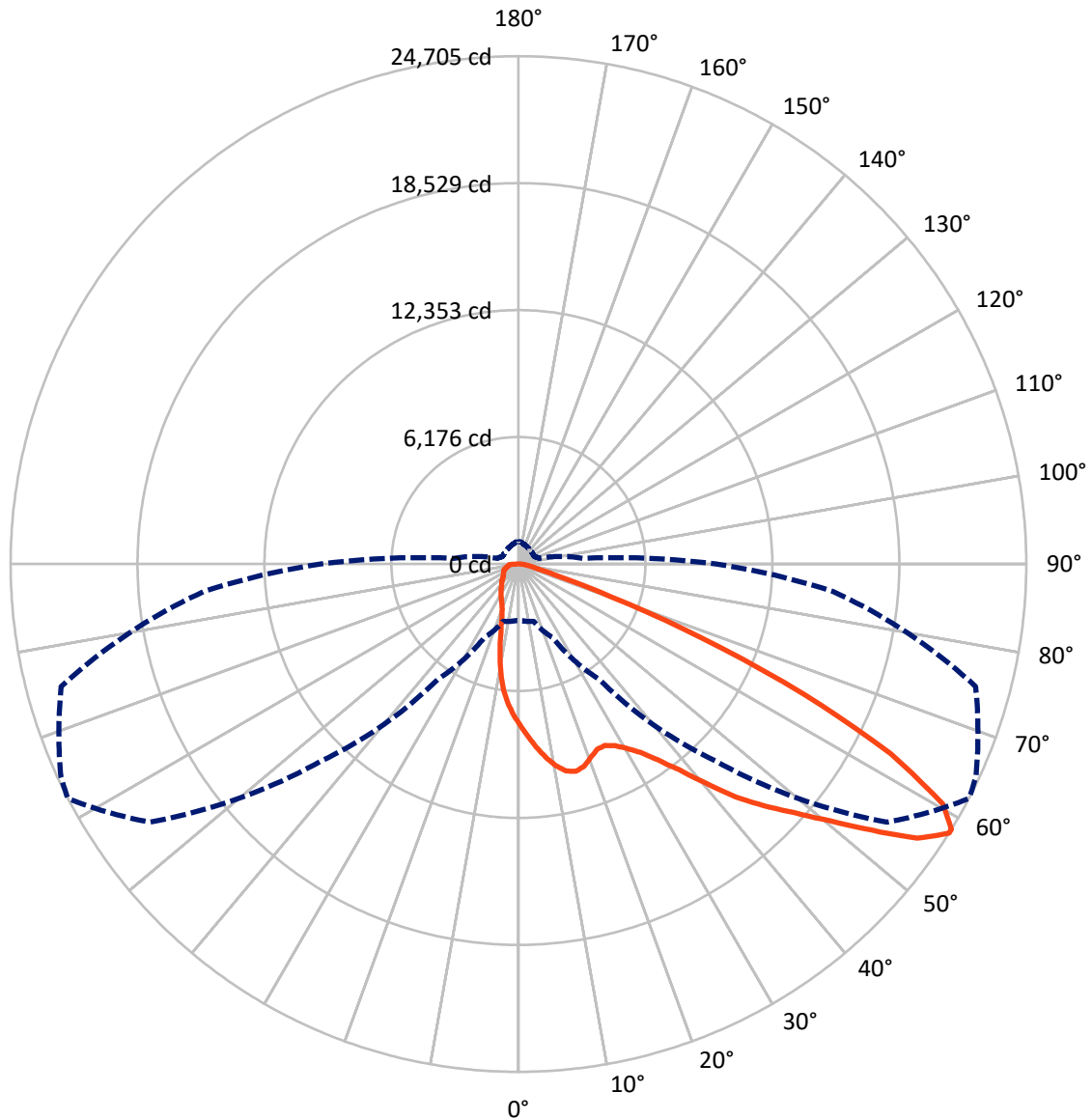
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	4484.6	0.0	4484.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24922.0	0.0	24922.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	29406.6	0.0	29406.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.6	2.4
10°-20°	1785.7	6.1
20°-30°	2886.7	9.8
30°-40°	4582.6	15.6
40°-50°	6705.3	22.8
50°-60°	7013.2	23.8
60°-70°	4143.4	14.1
70°-80°	1167.2	4.0
80°-90°	423.8	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°	29406.6	100.0
0°-180°	29406.6	100.0



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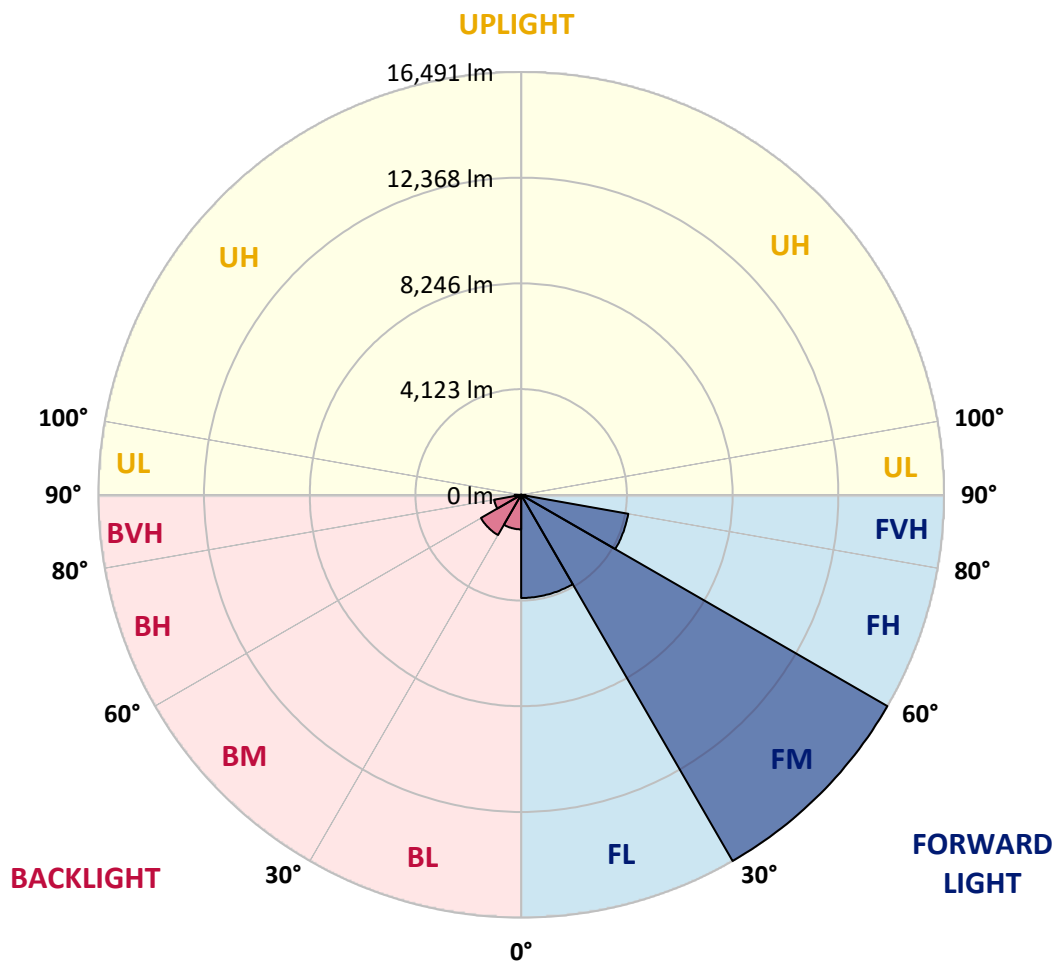
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4023.2	13.7			
FM	(30°-60°)	16491.1	56.1			
FH	(60°-80°)	4240.6	14.4			G2/5000
FVH	(80°-90°)	167.2	0.6			G2/225
BL	(0°-30°)	1347.9	4.6	B3/2500		
BM	(30°-60°)	1810.1	6.2	B2/2500		
BH	(60°-80°)	1070.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	256.6	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°	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3
2.5°	8926.0	8854.0	8808.3	8768.1	8715.5	8603.3	8452.4	8356.9	8308.4	8143.6	7948.4
5°	9801.1	9737.4	9690.4	9636.3	9542.2	9366.3	9122.6	8928.8	8833.2	8503.6	8113.1
7.5°	9596.2	9622.5	9704.2	9846.8	9968.7	9945.1	9727.7	9481.3	9355.2	8896.9	8304.2
10°	8361.0	8406.7	8547.9	8881.7	9421.7	9975.6	10144.5	9974.2	9846.8	9286.0	8500.9
12.5°	8113.1	8111.8	8122.8	8211.5	8532.7	9312.3	10158.4	10330.1	10253.9	9657.1	8701.7
15°	8214.2	8217.0	8208.7	8246.1	8345.8	8654.6	9734.7	10467.2	10521.2	10031.0	8909.4
17.5°	8480.1	8473.2	8441.3	8441.3	8477.3	8597.8	9236.2	10339.8	10589.0	10361.9	9092.1
20°	8926.0	8894.1	8809.7	8732.1	8693.3	8758.4	9031.2	10046.2	10471.3	10651.4	9243.1
22.5°	9466.0	9441.1	9304.0	9137.8	9003.5	9002.1	9136.5	9790.1	10267.8	10924.1	9370.5
25°	10163.9	10123.8	9920.2	9654.3	9418.9	9328.9	9366.3	9777.6	10157.0	11220.5	9484.0
27.5°	10983.7	10910.3	10669.4	10285.8	9939.6	9758.2	9704.2	10003.3	10258.1	11587.4	9641.9
30°	11977.9	11893.5	11584.7	11084.8	10596.0	10298.3	10183.3	10403.5	10593.2	12034.7	9895.3
32.5°	13109.3	12987.4	12630.1	12079.0	11436.5	10982.3	10795.4	10932.5	11083.4	12573.4	10212.4
35°	14672.6	14527.2	14010.7	13250.5	12524.9	11900.4	11601.3	11701.0	11847.8	13376.5	10670.7
37.5°	15738.9	15673.8	15330.4	14615.8	13826.5	13107.9	12645.4	12703.5	12786.6	14380.4	11257.9
40°	15729.2	15755.5	15762.4	15769.3	15232.0	14543.8	14046.7	13985.8	13969.2	15482.7	11925.3
42.5°	14941.3	15049.3	15398.2	16105.8	16432.6	16116.9	15661.3	15485.5	15398.2	16781.6	12632.9
45°	13735.2	13793.3	14446.9	15828.9	17047.4	17674.7	17329.9	16776.0	16618.2	17975.2	13220.0
47.5°	13113.4	13177.1	13588.4	15095.0	17040.5	18933.4	19132.8	18077.7	17795.2	19013.8	13726.8
50°	11633.1	11766.1	12284.0	13818.2	16418.8	19512.3	21017.5	19628.6	19044.2	20024.6	14235.0
52.5°	8914.9	9119.8	9700.0	11719.0	14841.6	19225.6	22525.4	21509.0	20683.7	21071.5	14671.2
55°	5623.4	5775.7	6263.1	8276.5	11872.7	17734.3	23097.3	23543.2	22809.3	22062.9	15049.3
57.5°	3057.5	3125.3	3308.1	4569.6	7722.6	14437.2	22263.7	24700.8	24396.2	22904.8	15334.5
58°	2736.2	2781.9	2895.5	3960.3	6848.9	13535.8	21894.0	24705.0	24552.7	23028.1	15356.7
60°	2030.0	2006.5	1905.4	2259.9	3812.2	9351.1	19659.0	23716.3	24163.6	23179.0	15248.7
62.5°	1783.5	1726.8	1520.4	1496.9	1854.2	4307.9	15042.3	20315.4	21371.9	22317.7	14592.3
65°	1675.5	1614.6	1348.7	1262.9	1337.7	1822.3	8860.9	15236.2	16561.4	19706.1	12914.0
67.5°	1595.2	1516.3	1239.3	1121.6	1127.2	1204.7	3551.8	9596.2	11087.5	14962.0	10044.8
70°	1517.7	1431.8	1146.6	1010.9	979.0	952.7	1412.4	4803.6	6156.5	9450.8	6404.4
72.5°	1434.6	1350.1	1064.9	923.6	861.3	774.1	922.2	1964.9	2744.5	4471.3	2905.2
75°	1314.1	1238.0	983.2	846.1	757.4	641.1	696.5	1026.1	1231.0	1780.8	1400.0
77.5°	1165.9	1103.6	891.8	782.4	671.6	520.7	535.9	711.8	789.3	1019.2	832.2
80°	837.8	859.9	793.5	703.4	598.2	422.3	411.3	519.3	560.8	655.0	541.4
82.5°	588.5	601.0	656.4	574.7	494.3	332.3	303.3	365.6	390.5	430.7	292.2
85°	405.7	391.9	450.0	400.2	357.3	221.6	207.7	247.9	263.1	267.3	150.9
87.5°	243.7	243.7	260.3	214.6	192.5	114.9	112.2	141.2	150.9	144.0	83.1
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°	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3	7811.3
2.5°	7832.0	7733.7	7524.6	7357.1	7145.2	6925.0	6801.8	6670.3	6580.2	6515.2	6619.0
5°	7891.6	7690.8	7258.8	6848.9	6396.1	5925.3	5568.0	5235.7	5004.4	4860.4	4996.1
7.5°	7985.7	7677.0	6988.7	6288.1	5475.2	4691.5	3990.8	3551.8	3295.7	3169.7	3248.6
10°	8093.8	7654.8	6671.6	5527.8	4364.7	3377.4	2853.9	2676.7	2618.5	2595.0	2606.1
12.5°	8183.8	7607.7	6282.5	4608.4	3277.7	2667.0	2516.1	2511.9	2524.4	2527.1	2531.3
15°	8247.5	7538.5	5705.1	3650.2	2621.3	2430.2	2421.9	2446.8	2470.4	2480.1	2485.6
17.5°	8290.4	7395.9	5052.9	2885.8	2348.5	2315.3	2334.7	2366.5	2391.4	2398.4	2403.9
20°	8286.2	7186.8	4276.1	2406.7	2200.3	2200.3	2233.6	2258.5	2259.9	2251.6	2255.7
22.5°	8243.3	6900.1	3522.8	2151.9	2068.8	2092.3	2125.6	2102.0	2005.1	1941.4	1945.5
25°	8171.3	6558.1	2877.5	1989.9	1946.9	1988.5	1978.8	1801.5	1663.1	1600.7	1600.7
27.5°	8107.6	6153.7	2381.7	1848.6	1825.1	1876.3	1704.6	1544.0	1485.8	1456.7	1447.0
30°	8061.9	5717.6	2050.8	1712.9	1710.1	1672.8	1478.9	1434.6	1424.9	1401.3	1393.0
32.5°	8073.0	5275.8	1838.9	1593.8	1603.5	1431.8	1370.9	1380.6	1372.3	1347.3	1336.3
35°	8164.4	4856.3	1700.5	1485.8	1456.7	1293.3	1307.2	1325.2	1322.4	1287.8	1276.7
37.5°	8327.8	4458.8	1609.1	1395.8	1271.2	1224.1	1246.3	1274.0	1267.0	1243.5	1235.2
40°	8499.5	4085.0	1534.3	1325.2	1161.8	1177.0	1196.4	1211.6	1218.6	1225.5	1219.9
42.5°	8667.0	3694.5	1442.9	1253.2	1116.1	1132.7	1141.0	1156.3	1193.6	1219.9	1218.6
45°	8766.7	3327.5	1348.7	1150.7	1080.1	1089.8	1084.2	1114.7	1160.4	1203.3	1204.7
47.5°	8877.5	3042.3	1274.0	1056.6	1045.5	1052.4	1035.8	1066.2	1107.8	1160.4	1165.9
50°	9011.8	2871.9	1214.4	981.8	998.4	998.4	994.2	1021.9	1080.1	1141.0	1152.1
52.5°	9164.2	2838.7	1164.6	927.8	951.3	949.9	954.1	995.6	1059.3	1118.9	1128.6
55°	9349.7	2928.7	1110.6	887.6	905.6	911.2	925.0	972.1	1026.1	1093.9	1098.1
57.5°	9565.7	3111.5	1067.6	855.8	864.1	882.1	904.2	947.2	1005.3	1080.1	1084.2
58°	9601.7	3150.3	1060.7	853.0	855.8	876.5	901.5	943.0	1001.2	1082.9	1087.0
60°	9603.1	3279.0	1045.5	840.5	823.9	858.5	886.2	927.8	994.2	1092.6	1102.2
62.5°	9262.5	3277.7	1034.4	822.5	790.7	833.6	865.5	913.9	987.3	1116.1	1135.5
65°	8156.1	2978.6	981.8	794.8	764.4	811.5	847.5	904.2	1006.7	1218.6	1231.0
67.5°	6379.5	2441.3	883.5	756.1	729.8	789.3	836.4	902.8	1027.5	1242.1	1250.4
70°	4217.9	1826.5	775.4	711.8	693.8	763.0	841.9	949.9	1003.9	1192.3	1170.1
72.5°	2189.3	1282.3	688.2	656.4	652.2	739.4	922.2	944.4	980.4	1121.6	1093.9
75°	1149.3	890.4	612.1	595.4	602.4	733.9	1088.4	919.5	949.9	1073.2	1125.8
77.5°	703.4	718.7	547.0	540.0	553.9	717.3	1087.0	887.6	905.6	987.3	1045.5
80°	470.8	583.0	497.1	498.5	508.2	656.4	976.2	837.8	851.6	933.3	992.9
82.5°	297.7	344.8	451.4	475.0	462.5	541.4	829.5	763.0	782.4	1067.6	1128.6
85°	150.9	216.0	391.9	457.0	416.8	379.4	673.0	668.8	678.5	769.9	804.5
87.5°	69.2	119.1	306.0	398.8	314.3	236.8	488.8	495.7	534.5	547.0	547.0
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)