

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: P191755

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191755
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-07-LED-E1-AFL-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28459 lumens
Efficiency: N/A
Efficacy: 125.9 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): 226
Input Voltage (V): NR
Input Current (A_{in}): 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

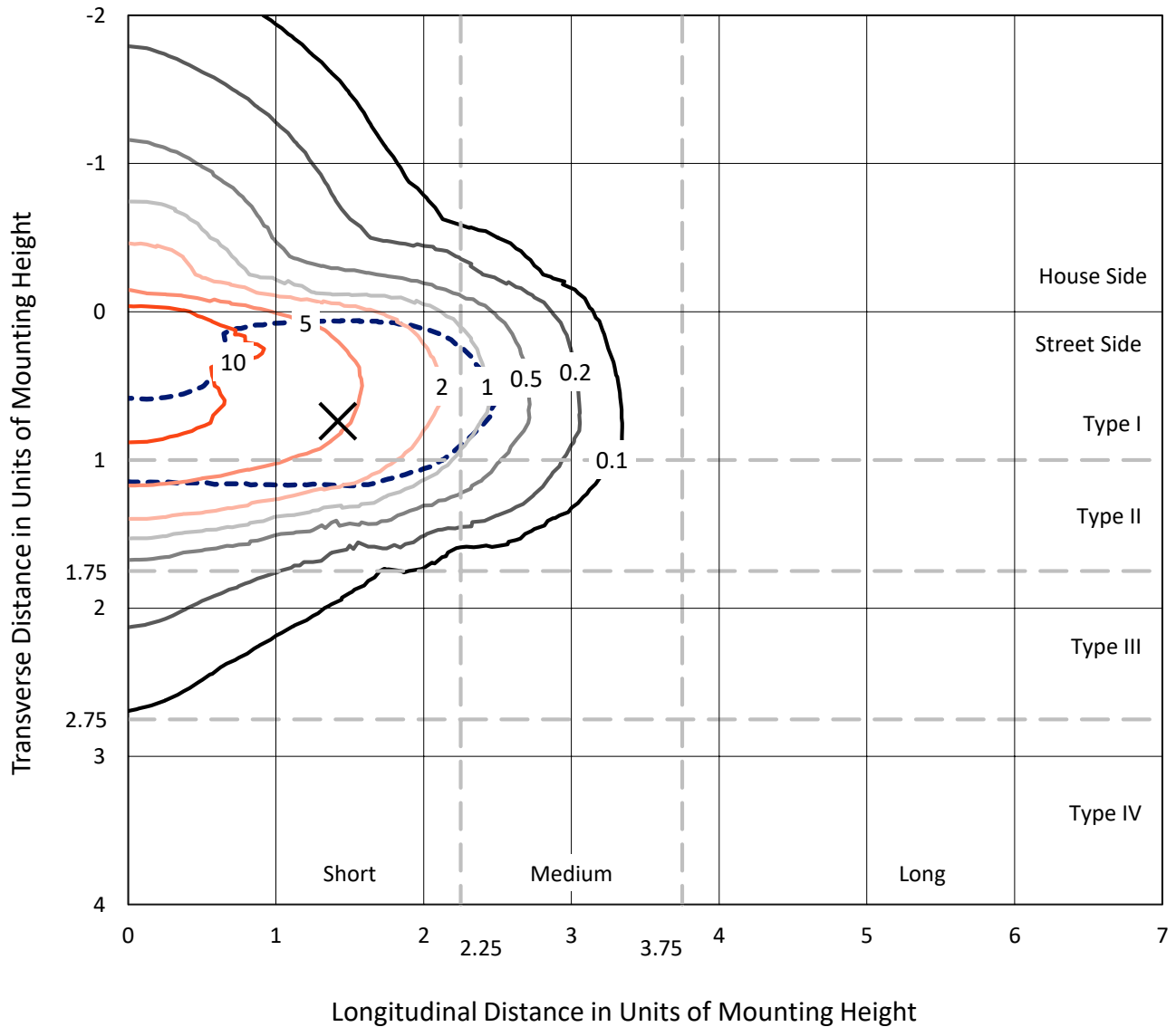


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Iso-Footcandle Lines of Horizontal Illumination

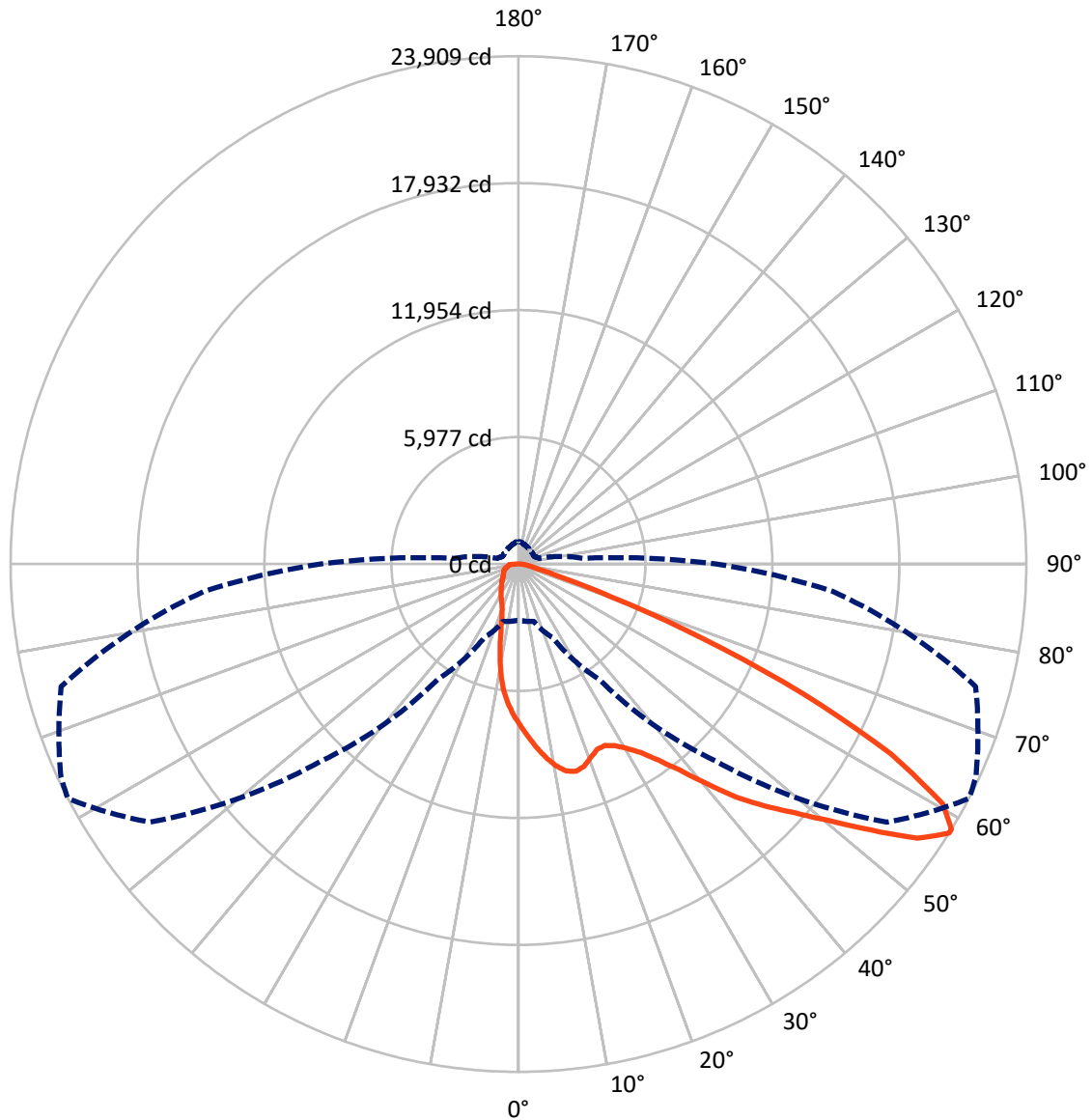
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	4340.1	0.0	4340.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24118.9	0.0	24118.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	28459.0	0.0	28459.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.1	2.4
10°-20°	1728.2	6.1
20°-30°	2793.7	9.8
30°-40°	4435.0	15.6
40°-50°	6489.3	22.8
50°-60°	6787.2	23.8
60°-70°	4009.9	14.1
70°-80°	1129.6	4.0
80°-90°	410.1	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°	28459.0	100.0
0°-180°	28459.0	100.0



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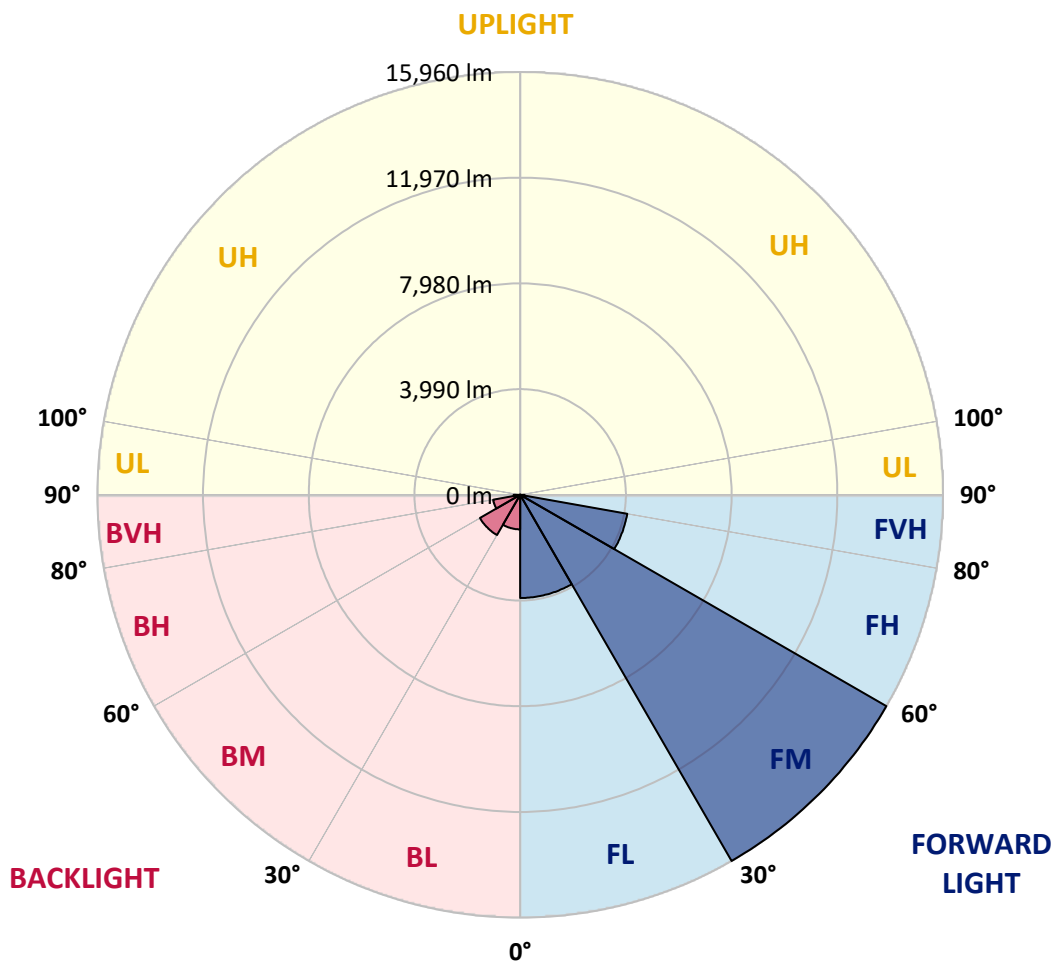
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3893.5	13.7			
FM	(30°-60°)	15959.7	56.1			
FH	(60°-80°)	4103.9	14.4			G2/5000
FVH	(80°-90°)	161.8	0.6			G2/225
BL	(0°-30°)	1304.4	4.6	B3/2500		
BM	(30°-60°)	1751.8	6.2	B2/2500		
BH	(60°-80°)	1035.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	248.3	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°	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6
2.5°	8638.3	8568.7	8524.4	8485.6	8434.6	8326.1	8180.0	8087.6	8040.7	7881.2	7692.2
5°	9485.3	9423.6	9378.1	9325.8	9234.7	9064.5	8828.6	8641.0	8548.6	8229.6	7851.7
7.5°	9287.0	9312.4	9391.5	9529.5	9647.4	9624.7	9414.3	9175.7	9053.8	8610.2	8036.6
10°	8091.6	8135.8	8272.5	8595.5	9118.1	9654.1	9817.6	9652.8	9529.5	8986.8	8226.9
12.5°	7851.7	7850.4	7861.1	7946.8	8257.8	9012.2	9831.0	9997.2	9923.5	9345.9	8421.2
15°	7949.5	7952.2	7944.2	7980.3	8076.8	8375.7	9421.0	10129.9	10182.1	9707.7	8622.3
17.5°	8206.8	8200.1	8169.3	8169.3	8204.1	8320.7	8938.5	10006.6	10247.8	10028.0	8799.2
20°	8638.3	8607.5	8525.8	8450.7	8413.2	8476.2	8740.2	9722.5	10133.9	10308.1	8945.2
22.5°	9161.0	9136.9	9004.2	8843.4	8713.4	8712.0	8842.0	9474.6	9936.9	10572.1	9068.5
25°	9836.4	9797.5	9600.5	9343.2	9115.4	9028.3	9064.5	9462.5	9829.7	10858.9	9178.4
27.5°	10629.7	10558.7	10325.5	9954.3	9619.3	9443.7	9391.5	9680.9	9927.5	11214.0	9331.2
30°	11591.9	11510.2	11211.4	10727.6	10254.5	9966.4	9855.2	10068.2	10251.8	11646.9	9576.4
32.5°	12686.8	12568.9	12223.1	11689.8	11068.0	10628.4	10447.5	10580.2	10726.2	12168.2	9883.3
35°	14199.8	14059.1	13559.2	12823.5	12121.3	11516.9	11227.4	11323.9	11466.0	12945.5	10326.9
37.5°	15231.7	15168.7	14836.3	14144.8	13381.0	12685.5	12237.9	12294.2	12374.6	13917.0	10895.1
40°	15222.3	15247.8	15254.5	15261.2	14741.2	14075.2	13594.1	13535.1	13519.0	14983.8	11541.0
42.5°	14459.8	14564.3	14902.0	15586.8	15903.1	15597.5	15156.6	14986.4	14902.0	16240.8	12225.8
45°	13292.5	13348.8	13981.4	15318.8	16498.1	17105.1	16771.5	16235.4	16082.6	17396.0	12794.0
47.5°	12690.8	12752.5	13150.5	14608.5	16491.4	18323.3	18516.3	17495.1	17221.7	18401.0	13284.5
50°	11258.3	11386.9	11888.1	13372.9	15889.7	18883.5	20340.2	18996.0	18430.5	19379.3	13776.3
52.5°	8627.6	8826.0	9387.5	11341.3	14363.3	18606.1	21799.5	20815.9	20017.2	20392.4	14198.5
55°	5442.2	5589.6	6061.3	8009.8	11490.1	17162.8	22353.0	22784.5	22074.3	21352.0	14564.3
57.5°	2959.0	3024.6	3201.5	4422.4	7473.8	13972.0	21546.3	23904.9	23610.0	22166.7	14840.4
58°	2648.1	2692.3	2802.2	3832.7	6628.2	13099.6	21188.5	23908.9	23761.5	22286.0	14861.8
60°	1964.6	1941.8	1844.0	2187.1	3689.3	9049.8	19025.5	22952.0	23384.9	22432.1	14757.3
62.5°	1726.1	1671.1	1471.4	1448.7	1794.4	4169.1	14557.6	19660.7	20683.2	21598.5	14122.1
65°	1621.5	1562.6	1305.3	1222.2	1294.5	1763.6	8575.4	14745.2	16027.7	19071.1	12497.9
67.5°	1543.8	1467.4	1199.4	1085.5	1090.8	1165.9	3437.4	9287.0	10730.3	14479.9	9721.1
70°	1468.8	1385.7	1109.6	978.3	947.5	922.0	1366.9	4648.8	5958.1	9146.2	6198.0
72.5°	1388.4	1306.6	1030.5	893.9	833.5	749.1	892.5	1901.6	2656.1	4327.2	2811.5
75°	1271.8	1198.1	951.5	818.8	733.0	620.5	674.1	993.0	1191.4	1723.4	1354.9
77.5°	1128.4	1068.1	863.0	757.2	650.0	503.9	518.6	688.8	763.9	986.3	805.4
80°	810.8	832.2	767.9	680.8	578.9	408.7	398.0	502.5	542.7	633.9	524.0
82.5°	569.5	581.6	635.2	556.1	478.4	321.6	293.5	353.8	377.9	416.8	282.8
85°	392.7	379.3	435.5	387.3	345.7	214.4	201.0	239.9	254.6	258.6	146.1
87.5°	235.9	235.9	251.9	207.7	186.3	111.2	108.5	136.7	146.1	139.4	80.4
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°	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6	7559.6
2.5°	7579.7	7484.5	7282.2	7120.0	6915.0	6701.9	6582.6	6455.3	6368.2	6305.2	6405.7
5°	7637.3	7443.0	7024.9	6628.2	6190.0	5734.3	5388.6	5067.0	4843.2	4703.8	4835.1
7.5°	7728.4	7429.6	6763.5	6085.4	5298.8	4540.3	3862.2	3437.4	3189.5	3067.5	3143.9
10°	7832.9	7408.1	6456.6	5349.7	4224.0	3268.5	2762.0	2590.4	2534.1	2511.4	2522.1
12.5°	7920.0	7362.6	6080.1	4459.9	3172.0	2581.0	2435.0	2431.0	2443.0	2445.7	2449.7
15°	7981.7	7295.6	5521.2	3532.5	2536.8	2351.9	2343.9	2368.0	2390.8	2400.1	2405.5
17.5°	8023.2	7157.5	4890.1	2792.8	2272.8	2240.7	2259.4	2290.2	2314.4	2321.1	2326.4
20°	8019.2	6955.2	4138.3	2329.1	2129.4	2129.4	2161.6	2185.7	2187.1	2179.0	2183.0
22.5°	7977.7	6677.8	3409.2	2082.5	2002.1	2024.9	2057.1	2034.3	1940.5	1878.8	1882.9
25°	7908.0	6346.8	2784.7	1925.7	1884.2	1924.4	1915.0	1743.5	1609.5	1549.2	1549.2
27.5°	7846.3	5955.4	2305.0	1789.0	1766.3	1815.8	1649.7	1494.2	1437.9	1409.8	1400.4
30°	7802.1	5533.3	1984.7	1657.7	1655.0	1618.9	1431.2	1388.4	1379.0	1356.2	1348.1
32.5°	7812.8	5105.8	1779.7	1542.5	1551.8	1385.7	1326.7	1336.1	1328.0	1303.9	1293.2
35°	7901.3	4699.8	1645.7	1437.9	1409.8	1251.7	1265.1	1282.5	1279.8	1246.3	1235.6
37.5°	8059.4	4315.2	1557.2	1350.8	1230.2	1184.7	1206.1	1232.9	1226.2	1203.4	1195.4
40°	8225.6	3953.3	1484.8	1282.5	1124.4	1139.1	1157.9	1172.6	1179.3	1186.0	1180.6
42.5°	8387.7	3575.4	1396.4	1212.8	1080.1	1096.2	1104.2	1119.0	1155.2	1180.6	1179.3
45°	8484.2	3220.3	1305.3	1113.6	1045.3	1054.7	1049.3	1078.8	1123.0	1164.6	1165.9
47.5°	8591.4	2944.2	1232.9	1022.5	1011.8	1018.5	1002.4	1031.9	1072.1	1123.0	1128.4
50°	8721.4	2779.4	1175.3	950.1	966.2	966.2	962.2	989.0	1045.3	1104.2	1115.0
52.5°	8868.8	2747.2	1127.0	897.9	920.7	919.3	923.3	963.5	1025.2	1082.8	1092.2
55°	9048.4	2834.3	1074.8	859.0	876.4	881.8	895.2	940.8	993.0	1058.7	1062.7
57.5°	9257.5	3011.2	1033.2	828.2	836.2	853.6	875.1	916.6	972.9	1045.3	1049.3
58°	9292.3	3048.7	1026.5	825.5	828.2	848.3	872.4	912.6	968.9	1048.0	1052.0
60°	9293.7	3173.4	1011.8	813.4	797.4	830.9	857.7	897.9	962.2	1057.3	1066.7
62.5°	8964.0	3172.0	1001.1	796.0	765.2	806.7	837.6	884.5	955.5	1080.1	1098.9
65°	7893.2	2882.6	950.1	769.2	739.7	785.3	820.1	875.1	974.3	1179.3	1191.4
67.5°	6173.9	2362.6	855.0	731.7	706.2	763.9	809.4	873.8	994.4	1202.1	1210.1
70°	4082.0	1767.6	750.5	688.8	671.4	738.4	814.8	919.3	971.6	1153.8	1132.4
72.5°	2118.7	1240.9	666.0	635.2	631.2	715.6	892.5	914.0	948.8	1085.5	1058.7
75°	1112.3	861.7	592.3	576.2	582.9	710.3	1053.3	889.8	919.3	1038.6	1089.5
77.5°	680.8	695.5	529.3	522.6	536.0	694.2	1052.0	859.0	876.4	955.5	1011.8
80°	455.6	564.2	481.1	482.4	491.8	635.2	944.8	810.8	824.2	903.2	960.9
82.5°	288.1	333.7	436.9	459.7	447.6	524.0	802.7	738.4	757.2	1033.2	1092.2
85°	146.1	209.1	379.3	442.2	403.4	367.2	651.3	647.3	656.7	745.1	778.6
87.5°	67.0	115.2	296.2	386.0	304.2	229.2	473.1	479.8	517.3	529.3	529.3
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)