

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: P193506

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193506
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-08-LED-E1-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32266 lumens
Efficiency: N/A
Efficacy: 96.6 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): 334
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

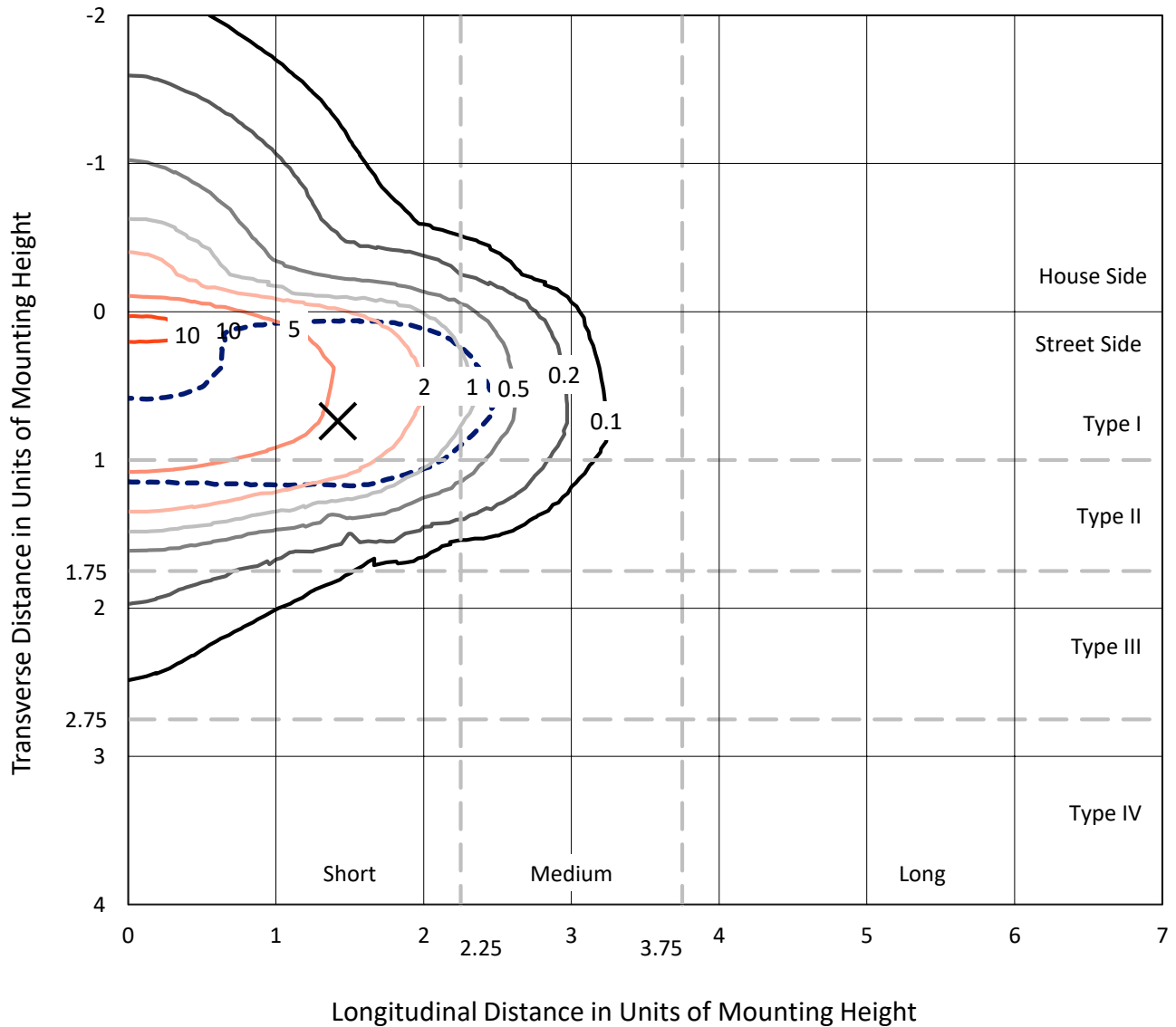


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Iso-Footcandle Lines of Horizontal Illumination

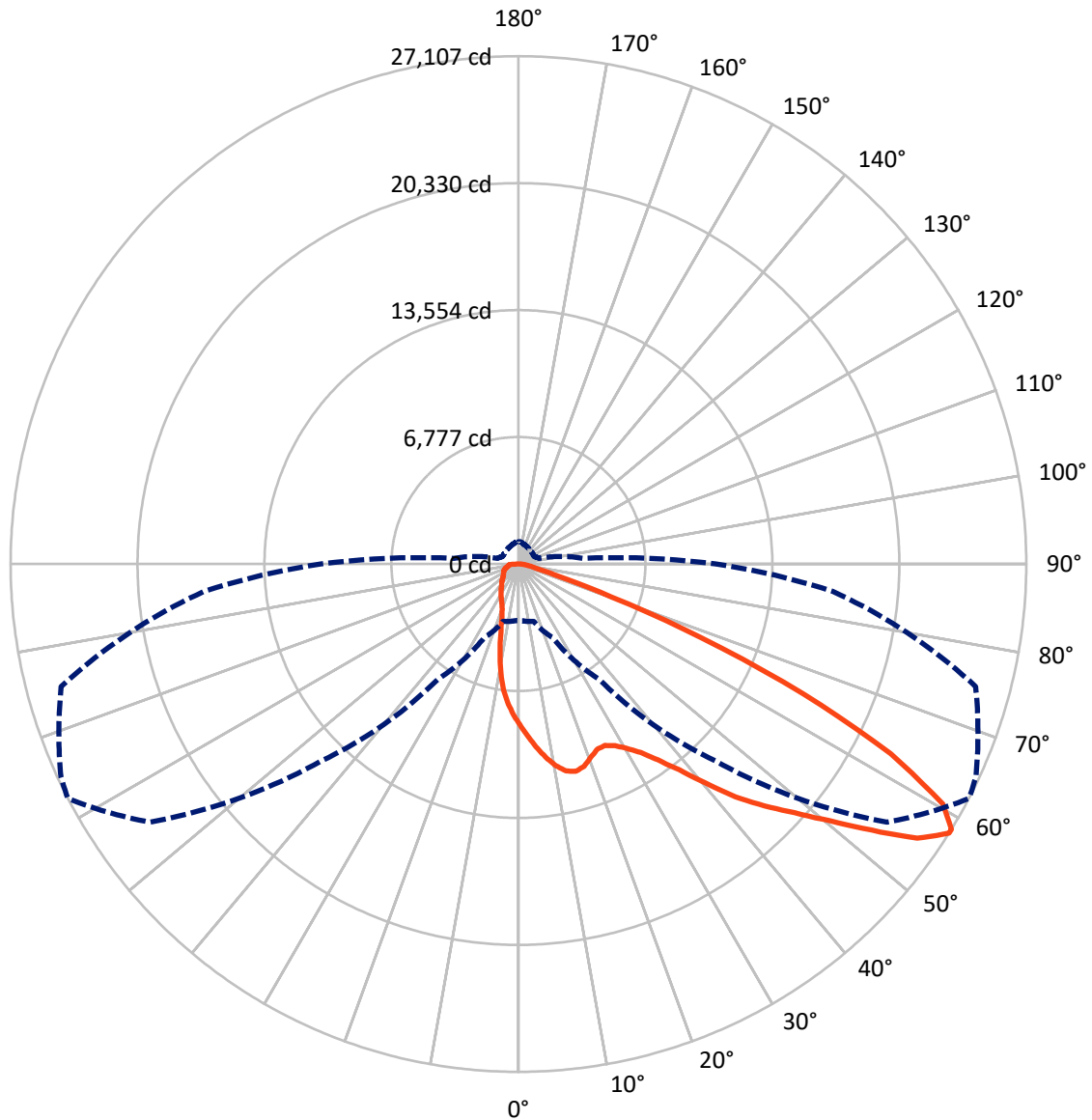
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 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	4920.7	0.0	4920.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27345.3	0.0	27345.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	32266.0	0.0	32266.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.5	2.4
10°-20°	1959.4	6.1
20°-30°	3167.4	9.8
30°-40°	5028.2	15.6
40°-50°	7357.3	22.8
50°-60°	7695.2	23.8
60°-70°	4546.3	14.1
70°-80°	1280.7	4.0
80°-90°	465.0	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°	32266.0	100.0
0°-180°	32266.0	100.0



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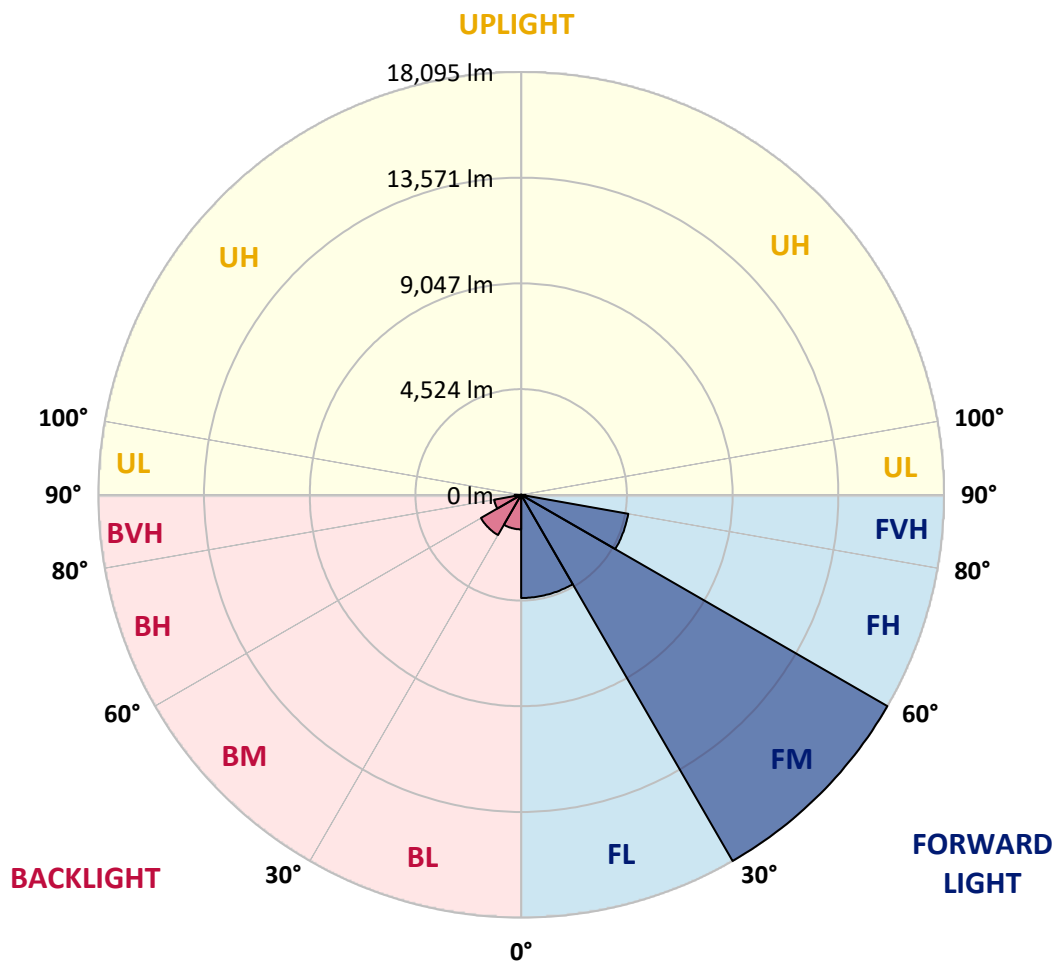
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4414.4	13.7			
FM	(30°-60°)	18094.6	56.1			
FH	(60°-80°)	4652.9	14.4			G2/5000
FVH	(80°-90°)	183.4	0.6			G2/225
BL	(0°-30°)	1478.9	4.6	B3/2500		
BM	(30°-60°)	1986.1	6.2	B2/2500		
BH	(60°-80°)	1174.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	281.5	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°	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8
2.5°	9793.9	9714.9	9664.8	9620.7	9563.0	9439.9	9274.3	9169.4	9116.3	8935.5	8721.2
5°	10754.2	10684.3	10632.6	10573.3	10470.0	10277.1	10009.7	9796.9	9692.1	9330.5	8902.0
7.5°	10529.3	10558.2	10647.8	10804.3	10938.0	10912.2	10673.6	10403.2	10264.9	9762.0	9111.7
10°	9174.0	9224.1	9379.1	9745.3	10337.8	10945.6	11131.0	10944.1	10804.3	10188.9	9327.5
12.5°	8902.0	8900.5	8912.7	9009.9	9362.4	10217.8	11146.1	11334.6	11251.0	10596.1	9547.8
15°	9012.9	9016.0	9006.9	9047.9	9157.3	9496.1	10681.2	11485.0	11544.2	11006.4	9775.7
17.5°	9304.7	9297.1	9262.1	9262.1	9301.6	9433.8	10134.2	11345.2	11618.7	11369.5	9976.2
20°	9793.9	9759.0	9666.3	9581.2	9538.6	9610.1	9909.4	11023.1	11489.5	11687.0	10141.8
22.5°	10386.5	10359.1	10208.7	10026.4	9879.0	9877.5	10024.8	10742.0	11266.2	11986.4	10281.6
25°	11152.2	11108.2	10884.8	10593.1	10334.8	10236.0	10277.1	10728.3	11144.6	12311.5	10406.2
27.5°	12051.7	11971.2	11706.8	11285.9	10906.1	10707.0	10647.8	10976.0	11255.5	12714.1	10579.4
30°	13142.6	13049.9	12711.1	12162.6	11626.3	11299.6	11173.5	11415.1	11623.2	13204.9	10857.5
32.5°	14383.9	14250.2	13858.2	13253.5	12548.5	12050.2	11845.1	11995.5	12161.1	13795.9	11205.4
35°	16099.3	15939.8	15373.1	14538.9	13742.8	13057.5	12729.3	12838.7	12999.8	14677.2	11708.3
37.5°	17269.2	17197.8	16821.0	16037.0	15171.0	14382.4	13875.0	13938.8	14029.9	15778.7	12352.5
40°	17258.6	17287.5	17295.1	17302.7	16713.1	15958.0	15412.6	15345.7	15327.5	16988.2	13084.9
42.5°	16394.1	16512.6	16895.5	17671.9	18030.4	17684.0	17184.2	16991.2	16895.5	18413.3	13861.3
45°	15070.7	15134.5	15851.7	17368.0	18705.1	19393.3	19015.0	18407.3	18234.0	19723.0	14505.5
47.5°	14388.5	14458.4	14909.6	16562.7	18697.5	20774.4	20993.2	19835.5	19525.5	20862.6	15061.6
50°	12764.3	12910.1	13478.4	15161.9	18015.3	21409.5	23061.1	21537.2	20896.0	21971.7	15619.2
52.5°	9781.7	10006.6	10643.2	12858.5	16284.7	21095.0	24715.7	23600.5	22694.9	23120.4	16097.8
55°	6170.2	6337.3	6872.1	9081.3	13027.1	19458.7	25343.2	25832.4	25027.2	24208.2	16512.6
57.5°	3354.8	3429.2	3629.8	5013.9	8473.6	15841.0	24428.5	27102.6	26768.4	25132.0	16825.6
58°	3002.3	3052.4	3177.0	4345.4	7514.8	14851.9	24022.9	27107.2	26940.1	25267.2	16849.9
60°	2227.4	2201.6	2090.7	2479.6	4182.8	10260.4	21570.6	26022.4	26513.1	25432.9	16731.4
62.5°	1957.0	1894.7	1668.3	1642.4	2034.4	4726.8	16505.0	22290.8	23450.1	24487.8	16011.2
65°	1838.4	1771.6	1479.9	1385.7	1467.7	1999.5	9722.5	16717.7	18171.7	21622.3	14169.7
67.5°	1750.3	1663.7	1359.8	1230.7	1236.8	1321.9	3897.2	10529.3	12165.7	16416.9	11021.6
70°	1665.2	1571.0	1258.0	1109.1	1074.2	1045.3	1549.8	5270.7	6755.2	10369.7	7027.1
72.5°	1574.1	1481.4	1168.4	1013.4	945.1	849.3	1011.9	2156.0	3011.4	4906.1	3187.7
75°	1441.9	1358.3	1078.8	928.3	831.1	703.5	764.2	1125.9	1350.7	1953.9	1536.1
77.5°	1279.3	1210.9	978.5	858.4	736.9	571.3	588.0	781.0	866.0	1118.3	913.1
80°	919.2	943.5	870.6	771.8	656.4	463.4	451.3	569.8	615.3	718.7	594.1
82.5°	645.7	659.4	720.2	630.5	542.4	364.7	332.7	401.1	428.5	472.5	320.6
85°	445.2	430.0	493.8	439.1	392.0	243.1	227.9	272.0	288.7	293.2	165.6
87.5°	267.4	267.4	285.6	235.5	211.2	126.1	123.1	155.0	165.6	158.0	91.2
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°	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8	8570.8
2.5°	8593.6	8485.7	8256.3	8072.5	7840.0	7598.4	7463.2	7318.8	7220.1	7148.7	7262.6
5°	8658.9	8438.6	7964.6	7514.8	7018.0	6501.4	6109.4	5744.8	5491.0	5333.0	5481.9
7.5°	8762.2	8423.4	7668.3	6899.5	6007.6	5147.6	4378.8	3897.2	3616.1	3477.9	3564.5
10°	8880.8	8399.1	7320.4	6065.4	4789.1	3705.8	3131.4	2937.0	2873.1	2847.3	2859.5
12.5°	8979.5	8347.5	6893.4	5056.5	3596.4	2926.3	2760.7	2756.1	2769.8	2772.9	2777.4
15°	9049.4	8271.5	6259.8	4005.1	2876.2	2666.5	2657.4	2684.7	2710.6	2721.2	2727.3
17.5°	9096.5	8115.0	5544.2	3166.4	2576.9	2540.4	2561.7	2596.6	2624.0	2631.6	2637.6
20°	9092.0	7885.6	4691.8	2640.7	2414.3	2414.3	2450.8	2478.1	2479.6	2470.5	2475.1
22.5°	9044.9	7571.1	3865.3	2361.1	2269.9	2295.8	2332.2	2306.4	2200.1	2130.2	2134.7
25°	8965.8	7195.8	3157.3	2183.3	2136.2	2181.8	2171.2	1976.7	1824.8	1756.4	1756.4
27.5°	8896.0	6752.1	2613.3	2028.4	2002.5	2058.8	1870.4	1694.1	1630.3	1598.4	1587.7
30°	8845.8	6273.5	2250.2	1879.5	1876.4	1835.4	1622.7	1574.1	1563.4	1537.6	1528.5
32.5°	8858.0	5788.8	2017.7	1748.8	1759.4	1571.0	1504.2	1514.8	1505.7	1478.4	1466.2
35°	8958.2	5328.5	1865.8	1630.3	1598.4	1419.1	1434.3	1454.0	1451.0	1413.0	1400.9
37.5°	9137.5	4892.4	1765.5	1531.5	1394.8	1343.1	1367.4	1397.8	1390.2	1364.4	1355.3
40°	9325.9	4482.2	1683.5	1454.0	1274.8	1291.5	1312.7	1329.5	1337.1	1344.6	1338.6
42.5°	9509.8	4053.7	1583.2	1375.0	1224.6	1242.9	1252.0	1268.7	1309.7	1338.6	1337.1
45°	9619.2	3651.1	1479.9	1262.6	1185.1	1195.7	1189.7	1223.1	1273.2	1320.3	1321.9
47.5°	9740.7	3338.1	1397.8	1159.3	1147.1	1154.7	1136.5	1169.9	1215.5	1273.2	1279.3
50°	9888.1	3151.2	1332.5	1077.2	1095.5	1095.5	1090.9	1121.3	1185.1	1252.0	1264.1
52.5°	10055.2	3114.7	1277.8	1018.0	1043.8	1042.3	1046.9	1092.4	1162.3	1227.7	1238.3
55°	10258.8	3213.5	1218.5	973.9	993.7	999.8	1014.9	1066.6	1125.9	1200.3	1204.9
57.5°	10495.9	3414.0	1171.4	939.0	948.1	967.8	992.2	1039.3	1103.1	1185.1	1189.7
58°	10535.4	3456.6	1163.8	935.9	939.0	961.8	989.1	1034.7	1098.5	1188.2	1192.7
60°	10536.9	3597.9	1147.1	922.3	904.0	942.0	972.4	1018.0	1090.9	1198.8	1209.4
62.5°	10163.1	3596.4	1135.0	902.5	867.6	914.7	949.6	1002.8	1083.3	1224.6	1245.9
65°	8949.1	3268.2	1077.2	872.1	838.7	890.4	929.9	992.2	1104.6	1337.1	1350.7
67.5°	6999.8	2678.7	969.4	829.6	800.7	866.0	917.7	990.6	1127.4	1362.9	1372.0
70°	4628.0	2004.1	850.9	781.0	761.2	837.2	923.8	1042.3	1101.5	1308.2	1283.9
72.5°	2402.1	1406.9	755.1	720.2	715.6	811.3	1011.9	1036.2	1075.7	1230.7	1200.3
75°	1261.1	977.0	671.6	653.3	660.9	805.3	1194.2	1008.9	1042.3	1177.5	1235.3
77.5°	771.8	788.6	600.2	592.6	607.8	787.0	1192.7	973.9	993.7	1083.3	1147.1
80°	516.6	639.7	545.5	547.0	557.6	720.2	1071.2	919.2	934.4	1024.1	1089.4
82.5°	326.7	378.3	495.3	521.1	507.5	594.1	910.1	837.2	858.4	1171.4	1238.3
85°	165.6	237.0	430.0	501.4	457.3	416.3	738.4	733.9	744.5	844.8	882.8
87.5°	76.0	130.7	335.8	437.6	344.9	259.8	536.3	543.9	586.5	600.2	600.2
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)