

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: P269373

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269373
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-06-LED-E1-AFL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31732.3 lumens
Efficiency: N/A
Efficacy: 95.3 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

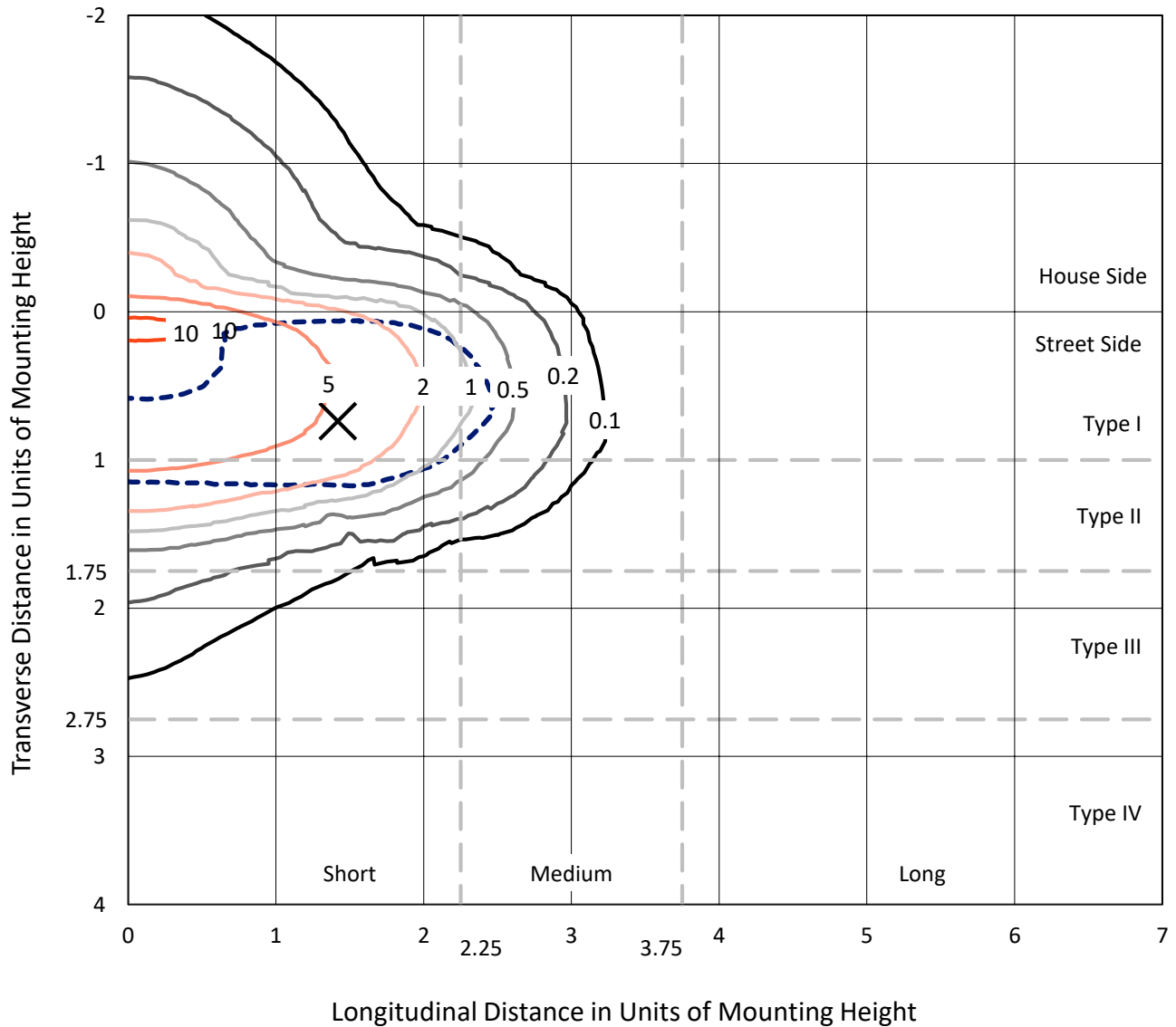
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

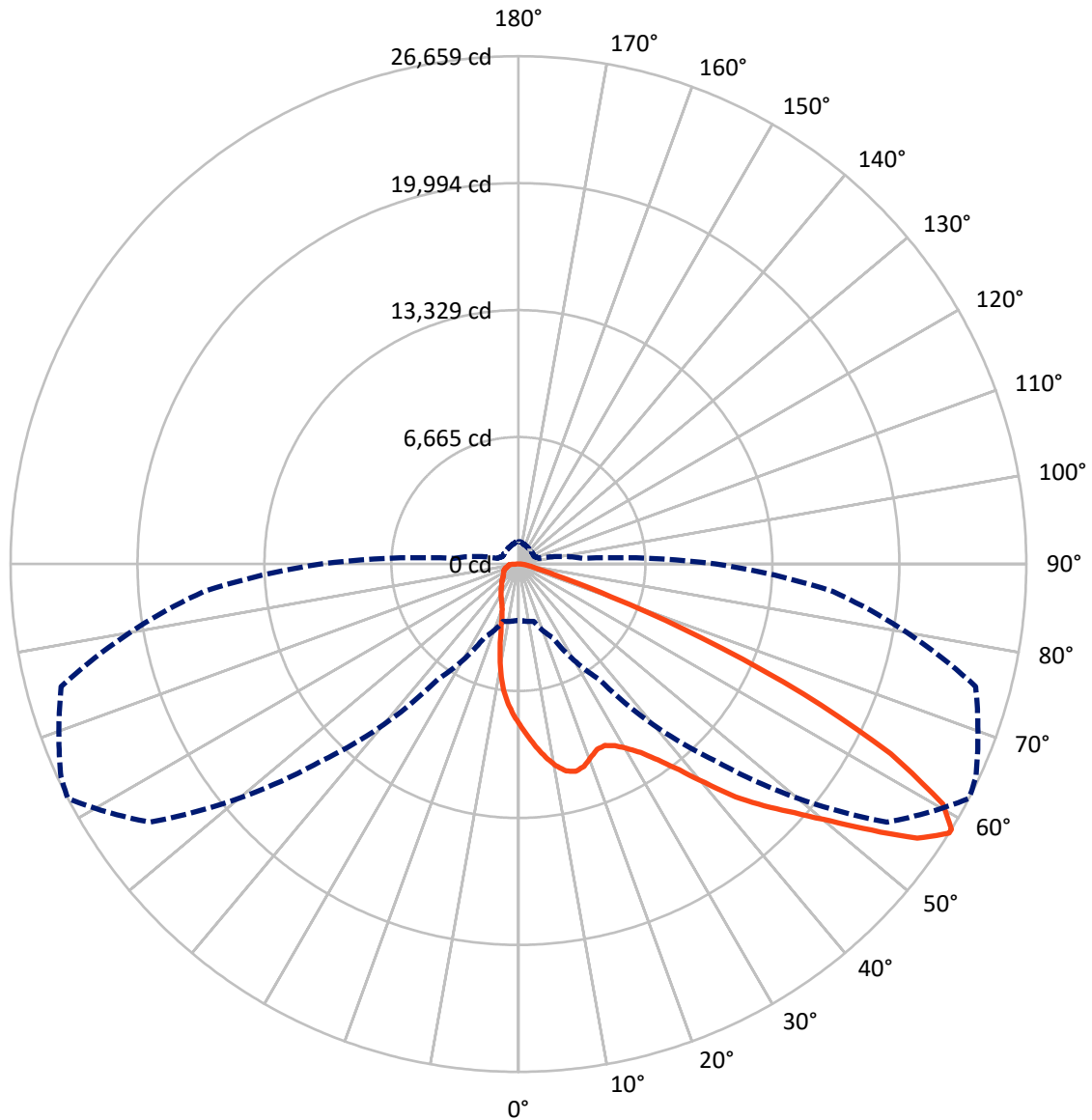
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 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	4839.3	0.0	4839.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26893.0	0.0	26893.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	31732.3	0.0	31732.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.9	2.4
10°-20°	1927.0	6.1
20°-30°	3115.0	9.8
30°-40°	4945.0	15.6
40°-50°	7235.6	22.8
50°-60°	7567.9	23.8
60°-70°	4471.1	14.1
70°-80°	1259.5	4.0
80°-90°	457.3	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°	31732.3	100.0
0°-180°	31732.3	100.0



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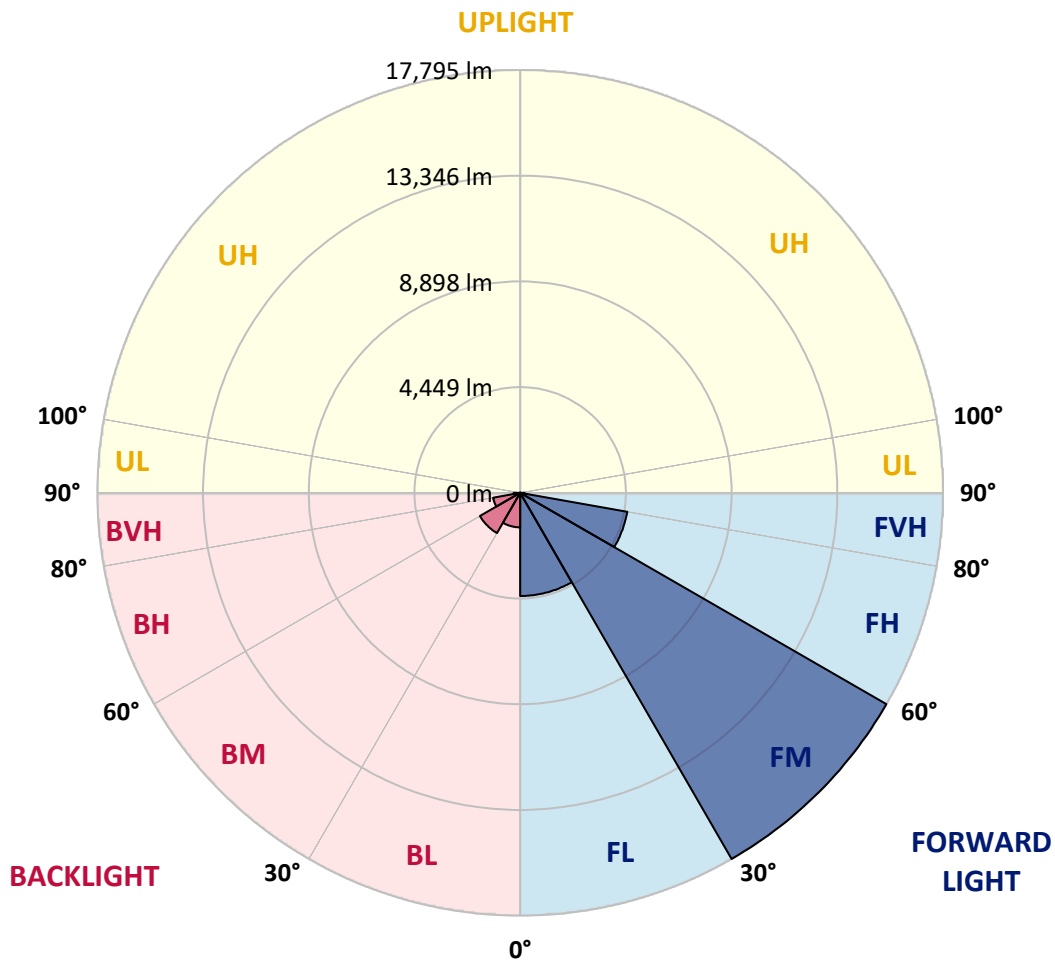
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4341.4	13.7			
FM	(30°-60°)	17795.3	56.1			
FH	(60°-80°)	4575.9	14.4			G2/5000
FVH	(80°-90°)	180.4	0.6			G2/225
BL	(0°-30°)	1454.5	4.6	B3/2500		
BM	(30°-60°)	1953.3	6.2	B2/2500		
BH	(60°-80°)	1154.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	276.9	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°	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1
2.5°	9631.8	9554.3	9504.8	9461.6	9404.7	9283.8	9120.9	9017.7	8965.4	8787.7	8576.9
5°	10576.3	10507.6	10456.7	10398.4	10296.8	10107.1	9844.0	9635.0	9531.7	9176.1	8754.8
7.5°	10355.1	10383.5	10471.6	10625.6	10757.1	10731.6	10497.1	10231.1	10095.2	9600.5	8961.0
10°	9022.2	9071.5	9223.9	9584.0	10166.8	10764.5	10946.8	10763.0	10625.6	10020.5	9173.1
12.5°	8754.8	8753.3	8765.2	8860.9	9207.5	10048.8	10961.7	11147.1	11065.0	10420.9	9389.9
15°	8863.8	8866.8	8857.8	8898.3	9005.8	9339.0	10504.5	11295.0	11353.3	10824.2	9614.0
17.5°	9150.8	9143.3	9109.0	9109.0	9147.8	9277.8	9966.6	11157.5	11426.5	11181.5	9811.2
20°	9631.8	9597.5	9506.4	9422.7	9380.9	9451.1	9745.4	10840.7	11299.5	11493.8	9974.2
22.5°	10214.6	10187.8	10039.8	9860.5	9715.6	9714.1	9859.0	10564.2	11079.9	11788.1	10111.5
25°	10967.8	10924.4	10704.7	10417.9	10163.9	10066.8	10107.1	10550.9	10960.3	12107.9	10234.1
27.5°	11852.3	11773.1	11513.1	11099.3	10725.8	10529.9	10471.6	10794.5	11069.4	12503.9	10404.3
30°	12925.3	12834.1	12500.9	11961.4	11433.9	11112.8	10988.6	11226.3	11430.9	12986.4	10677.9
32.5°	14146.0	14014.5	13629.1	13034.2	12340.9	11850.9	11649.1	11797.0	11959.9	13567.7	11020.0
35°	15833.0	15676.1	15118.7	14298.4	13515.4	12841.5	12518.8	12626.3	12784.8	14434.3	11514.7
37.5°	16983.5	16913.4	16542.7	15771.7	14919.9	14144.5	13645.4	13708.1	13797.8	15517.7	12148.1
40°	16973.1	17001.5	17009.0	17016.5	16436.6	15694.1	15157.6	15091.9	15074.0	16707.1	12868.4
42.5°	16122.9	16239.5	16615.9	17379.6	17732.3	17391.5	16900.0	16710.1	16615.9	18108.8	13632.0
45°	14821.5	14884.1	15589.5	17080.7	18395.6	19072.5	18700.5	18102.7	17932.4	19396.8	14265.5
47.5°	14150.6	14219.2	14663.0	16288.7	18388.1	20430.8	20645.9	19507.4	19202.4	20517.5	14812.4
50°	12553.2	12696.6	13255.4	14911.1	17717.2	21055.5	22679.7	21181.0	20550.3	21608.3	15360.8
52.5°	9619.9	9841.1	10467.2	12645.8	16015.3	20746.0	24306.9	23210.0	22319.6	22737.9	15831.5
55°	6068.1	6232.5	6758.5	8931.0	12811.6	19136.9	24924.1	25405.1	24613.2	23807.8	16239.5
57.5°	3299.2	3372.4	3569.8	4930.9	8333.3	15578.9	24024.5	26654.2	26325.5	24716.2	16547.3
58°	2952.5	3002.0	3124.5	4273.5	7390.5	14606.3	23625.6	26658.8	26494.4	24849.3	16571.2
60°	2190.5	2165.2	2056.1	2438.5	4113.7	10090.7	21213.7	25592.0	26074.6	25012.1	16454.7
62.5°	1924.6	1863.4	1640.7	1615.3	2000.7	4648.5	16232.0	21922.1	23062.1	24082.8	15746.3
65°	1808.0	1742.4	1455.4	1362.8	1443.4	1966.4	9561.6	16441.1	17871.2	21264.6	13935.3
67.5°	1721.3	1636.3	1337.3	1210.3	1216.3	1299.9	3832.8	10355.1	11964.4	16145.2	10839.3
70°	1637.7	1545.1	1237.2	1090.8	1056.4	1028.0	1524.2	5183.5	6643.4	10198.2	6910.9
72.5°	1548.0	1457.0	1149.1	996.7	929.4	835.2	995.1	2120.3	2961.6	4824.9	3134.9
75°	1418.1	1335.9	1060.9	912.9	817.4	691.9	751.6	1107.3	1328.4	1921.7	1510.7
77.5°	1258.2	1191.0	962.3	844.2	724.8	561.8	578.2	768.1	851.8	1099.7	898.0
80°	904.1	927.9	856.3	759.1	645.5	455.7	443.9	560.4	605.2	706.7	584.3
82.5°	635.0	648.4	708.3	620.1	533.5	358.7	327.3	394.4	421.3	464.8	315.2
85°	437.8	422.8	485.7	431.8	385.6	239.0	224.1	267.4	284.0	288.4	162.9
87.5°	262.9	262.9	280.9	231.7	207.7	124.1	121.0	152.4	162.9	155.3	89.7
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°	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1	8429.1
2.5°	8451.4	8345.3	8119.7	7939.0	7710.3	7472.7	7339.7	7197.8	7100.7	7030.5	7142.6
5°	8515.8	8299.0	7832.9	7390.5	6901.9	6393.9	6008.4	5649.7	5400.3	5244.8	5391.3
7.5°	8617.4	8284.1	7541.5	6785.3	5908.2	5062.5	4306.5	3832.8	3556.3	3420.3	3505.5
10°	8733.9	8260.2	7199.2	5965.0	4709.9	3644.5	3079.6	2888.4	2825.6	2800.1	2812.1
12.5°	8831.0	8209.4	6779.4	4972.8	3536.8	2877.9	2715.0	2710.5	2724.0	2727.0	2731.4
15°	8899.7	8134.7	6156.3	3938.8	2828.7	2622.4	2613.3	2640.3	2665.7	2676.2	2682.2
17.5°	8946.0	7980.7	5452.5	3114.1	2534.3	2498.4	2519.2	2553.6	2580.7	2588.0	2594.0
20°	8941.5	7755.2	4614.2	2597.0	2374.4	2374.4	2410.2	2437.1	2438.5	2429.6	2434.1
22.5°	8895.2	7445.8	3801.4	2322.1	2232.4	2257.8	2293.6	2268.3	2163.7	2094.9	2099.3
25°	8817.6	7076.8	3105.0	2147.2	2100.9	2145.7	2135.4	1944.0	1794.5	1727.4	1727.4
27.5°	8748.9	6640.5	2570.1	1994.9	1969.4	2024.7	1839.4	1666.0	1603.4	1571.9	1561.4
30°	8699.5	6169.6	2213.0	1848.4	1845.4	1805.1	1595.8	1548.0	1537.5	1512.1	1503.3
32.5°	8711.5	5693.1	1984.4	1719.8	1730.3	1545.1	1479.2	1489.7	1480.8	1453.8	1442.0
35°	8810.0	5240.4	1835.0	1603.4	1571.9	1395.6	1410.6	1430.0	1427.0	1389.7	1377.7
37.5°	8986.4	4811.4	1736.3	1506.2	1371.7	1320.9	1344.9	1374.6	1367.2	1341.8	1332.8
40°	9171.6	4408.1	1655.7	1430.0	1253.7	1270.2	1291.0	1307.5	1314.8	1322.5	1316.5
42.5°	9352.4	3986.7	1557.0	1352.3	1204.4	1222.4	1231.2	1247.7	1288.0	1316.5	1314.8
45°	9460.1	3590.6	1455.4	1241.6	1165.6	1176.1	1170.0	1202.9	1252.1	1298.5	1299.9
47.5°	9579.5	3282.9	1374.6	1140.0	1128.1	1135.6	1117.8	1150.5	1195.5	1252.1	1258.2
50°	9724.5	3099.1	1310.4	1059.5	1077.3	1077.3	1072.8	1102.8	1165.6	1231.2	1243.3
52.5°	9888.9	3063.2	1256.6	1001.2	1026.6	1025.1	1029.5	1074.4	1143.2	1207.3	1217.8
55°	10089.1	3160.3	1198.3	957.9	977.3	983.3	998.1	1049.0	1107.3	1180.5	1185.0
57.5°	10322.2	3357.5	1152.0	923.5	932.4	951.8	975.7	1022.0	1084.9	1165.6	1170.0
58°	10361.1	3399.4	1144.6	920.5	923.5	945.8	972.8	1017.6	1080.3	1168.4	1172.9
60°	10362.6	3538.3	1128.1	907.0	889.1	926.4	956.3	1001.2	1072.8	1178.9	1189.4
62.5°	9995.0	3536.8	1116.2	887.5	853.2	899.6	933.9	986.2	1065.4	1204.4	1225.3
65°	8801.1	3214.1	1059.5	857.7	824.9	875.6	914.5	975.7	1086.3	1314.8	1328.4
67.5°	6884.0	2634.4	953.3	815.9	787.5	851.8	902.5	974.2	1108.7	1340.4	1349.3
70°	4551.4	1970.9	836.9	768.1	748.6	823.3	908.5	1025.1	1083.4	1286.6	1262.7
72.5°	2362.5	1383.7	742.7	708.3	703.8	798.0	995.1	1019.0	1057.9	1210.3	1180.5
75°	1240.2	960.7	660.4	642.5	650.1	791.9	1174.4	992.2	1025.1	1158.0	1214.8
77.5°	759.1	775.4	590.2	582.8	597.7	774.0	1172.9	957.9	977.3	1065.4	1128.1
80°	508.0	629.1	536.5	537.9	548.3	708.3	1053.4	904.1	919.0	1007.1	1071.4
82.5°	321.2	372.1	487.2	512.6	499.1	584.3	895.0	823.3	844.2	1152.0	1217.8
85°	162.9	233.1	422.8	493.1	449.8	409.4	726.2	721.7	732.2	830.8	868.1
87.5°	74.6	128.5	330.2	430.4	339.2	255.5	527.5	534.9	576.8	590.2	590.2
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)