

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: P193515

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193515
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35246 lumens
Efficiency: N/A
Efficacy: 90.1 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

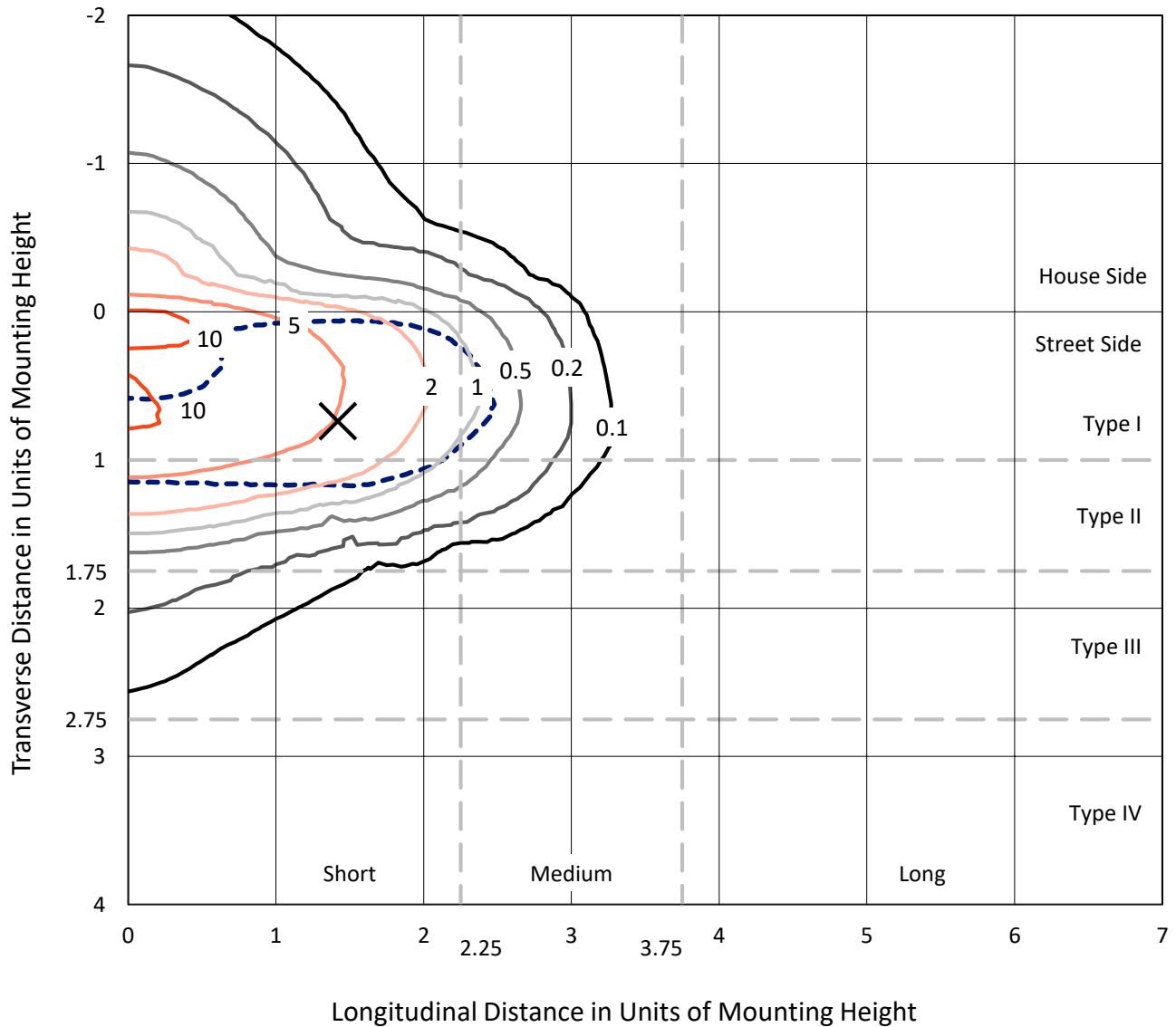
Input Watts (W): 391
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

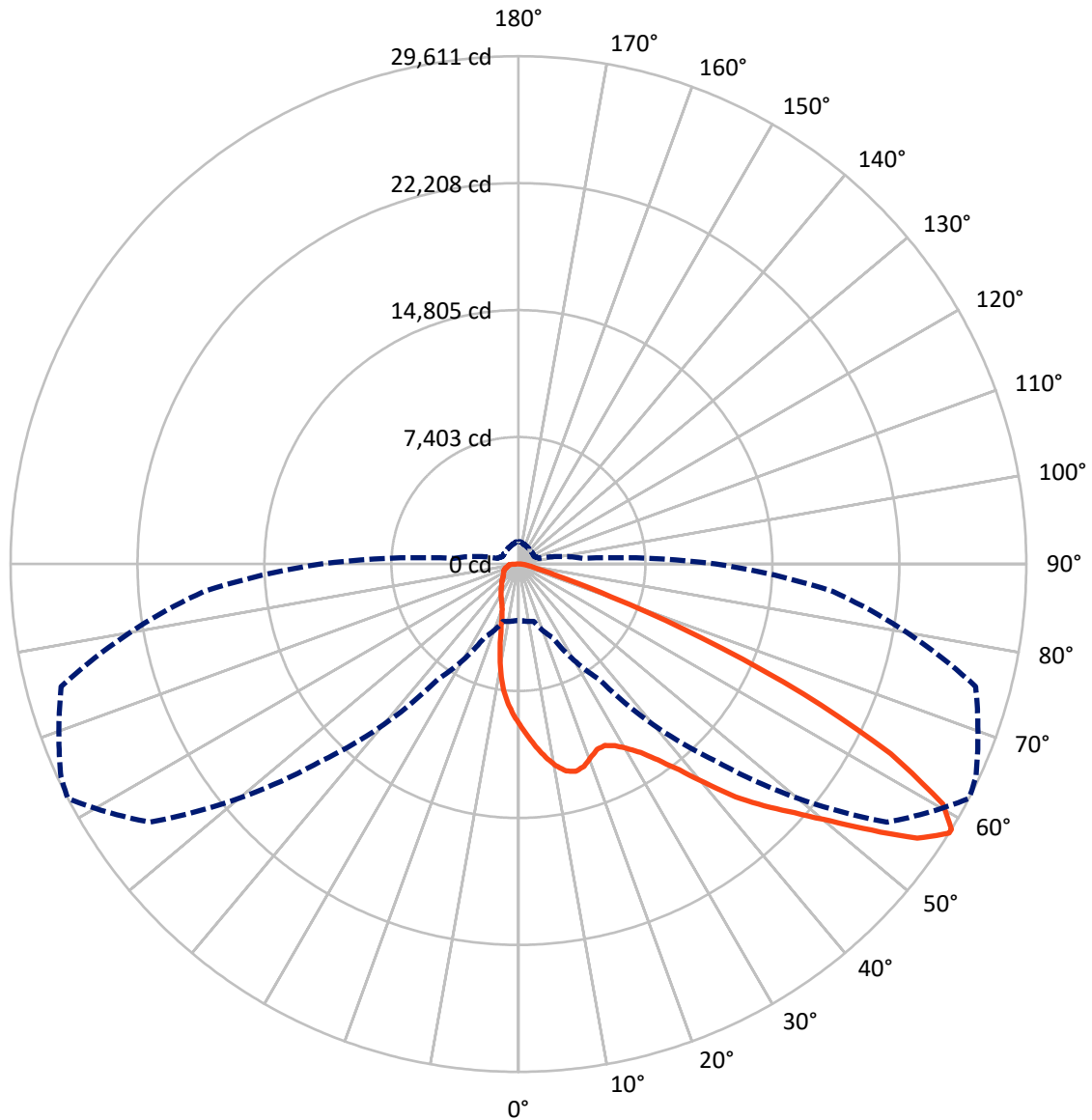
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 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	5375.2	0.0	5375.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29870.8	0.0	29870.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	35246.0	0.0	35246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.3	2.4
10°-20°	2140.3	6.1
20°-30°	3459.9	9.8
30°-40°	5492.6	15.6
40°-50°	8036.8	22.8
50°-60°	8405.9	23.8
60°-70°	4966.2	14.1
70°-80°	1399.0	4.0
80°-90°	507.9	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°	35246.0	100.0
0°-180°	35246.0	100.0



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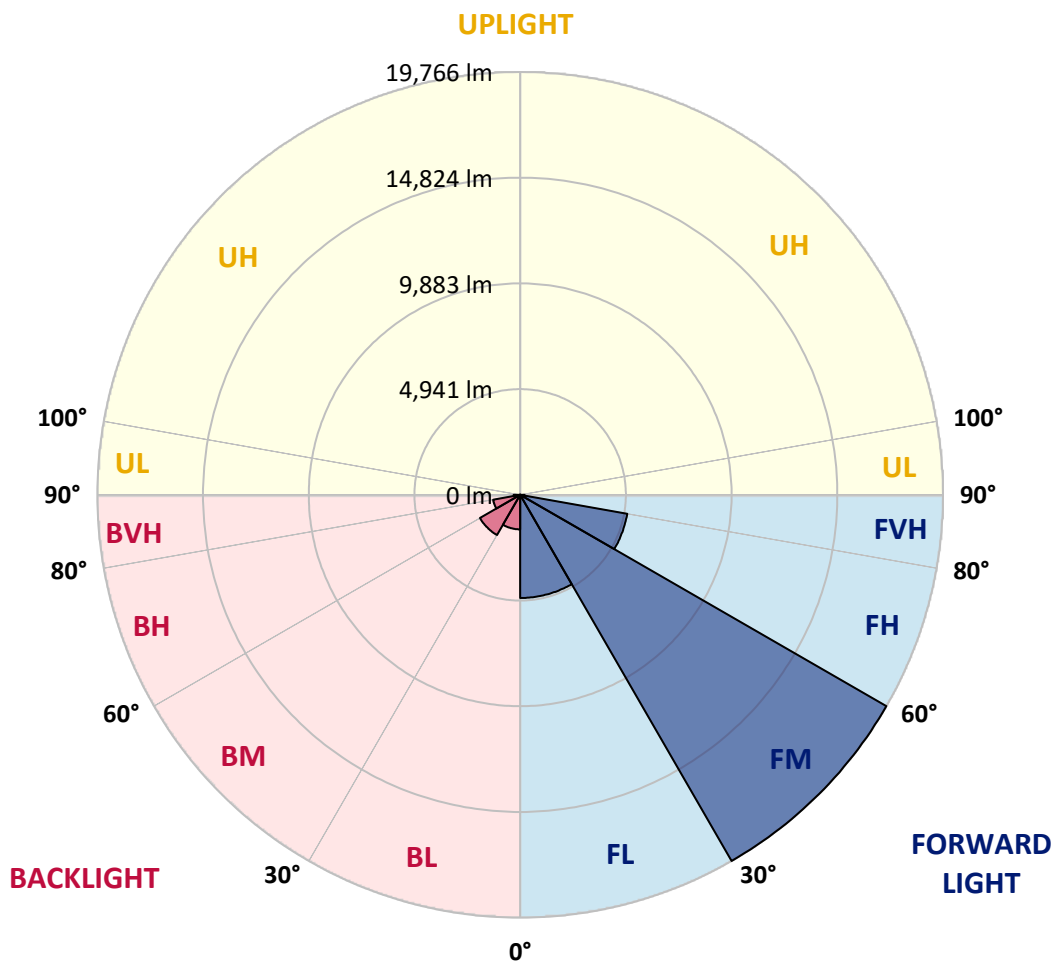
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4822.1	13.7			
FM	(30°-60°)	19765.8	56.1			
FH	(60°-80°)	5082.6	14.4			G3/7500
FVH	(80°-90°)	200.4	0.6			G2/225
BL	(0°-30°)	1615.5	4.6	B3/2500		
BM	(30°-60°)	2169.5	6.2	B2/2500		
BH	(60°-80°)	1282.6	3.6	B3/2500		G3/2500
BVH	(80°-90°)	307.5	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°	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4
2.5°	10698.4	10612.1	10557.4	10509.2	10446.2	10311.7	10130.8	10016.3	9958.2	9760.7	9526.7
5°	11747.4	11671.0	11614.6	11549.9	11437.0	11226.2	10934.1	10701.8	10587.2	10192.2	9724.2
7.5°	11501.7	11533.3	11631.2	11802.1	11948.2	11920.0	11659.4	11364.0	11213.0	10663.6	9953.2
10°	10021.3	10076.1	10245.3	10645.3	11292.6	11956.5	12159.0	11954.8	11802.1	11130.0	10188.9
12.5°	9724.2	9722.5	9735.8	9842.0	10227.1	11161.5	12175.6	12381.4	12290.1	11574.8	10429.6
15°	9845.4	9848.7	9838.7	9883.5	10003.0	10373.1	11667.7	12545.7	12610.4	12022.9	10678.5
17.5°	10164.0	10155.7	10117.5	10117.5	10160.7	10305.1	11070.2	12393.0	12691.7	12419.6	10897.6
20°	10698.4	10660.3	10559.0	10466.1	10419.6	10497.6	10824.6	12041.1	12550.7	12766.4	11078.5
22.5°	11345.7	11315.9	11151.5	10952.4	10791.4	10789.7	10950.7	11734.1	12306.7	13093.4	11231.2
25°	12182.2	12134.1	11890.1	11571.4	11289.3	11181.4	11226.2	11719.2	12173.9	13448.6	11367.3
27.5°	13164.8	13076.8	12788.0	12328.3	11913.3	11695.9	11631.2	11989.7	12295.1	13888.4	11556.5
30°	14356.4	14255.2	13885.1	13285.9	12700.0	12343.2	12205.5	12469.3	12696.7	14424.5	11860.2
32.5°	15712.4	15566.4	15138.1	14477.6	13707.5	13163.1	12939.0	13103.4	13284.3	15070.1	12240.3
35°	17586.2	17411.9	16792.9	15881.7	15012.0	14263.5	13905.0	14024.5	14200.4	16032.7	12789.7
37.5°	18864.2	18786.2	18374.6	17518.2	16572.1	15710.7	15156.4	15226.1	15325.7	17236.0	13493.4
40°	18852.6	18884.1	18892.4	18900.7	18256.7	17431.9	16836.0	16763.0	16743.1	18557.1	14293.4
42.5°	17908.2	18037.6	18455.9	19304.0	19695.7	19317.3	18771.2	18560.5	18455.9	20113.9	15141.5
45°	16462.6	16532.3	17315.7	18972.1	20432.6	21184.4	20771.2	20107.3	19918.1	21544.6	15845.2
47.5°	15717.4	15793.7	16286.7	18092.4	20424.3	22693.1	22932.1	21667.4	21328.8	22789.4	16452.6
50°	13943.2	14102.5	14723.2	16562.2	19679.1	23386.9	25191.0	23526.3	22825.9	24001.0	17061.7
52.5°	10685.2	10930.8	11626.2	14046.1	17788.7	23043.3	26998.4	25780.2	24791.0	25255.7	17584.5
55°	6740.1	6922.6	7506.8	9920.0	14230.3	21255.8	27683.8	28218.3	27338.6	26444.0	18037.6
57.5°	3664.6	3745.9	3965.0	5477.0	9256.2	17304.1	26684.7	29605.8	29240.6	27453.1	18379.5
58°	3279.6	3334.3	3470.4	4746.7	8208.9	16223.6	26241.6	29610.8	29428.2	27600.9	18406.1
60°	2433.1	2404.9	2283.8	2708.6	4569.2	11208.0	23562.8	28425.7	28961.8	27781.8	18276.6
62.5°	2137.7	2069.6	1822.4	1794.1	2222.3	5163.3	18029.3	24349.5	25615.8	26749.4	17489.9
65°	2008.2	1935.2	1616.6	1513.6	1603.3	2184.2	10620.4	18261.7	19850.0	23619.2	15478.4
67.5°	1912.0	1817.4	1485.4	1344.4	1351.0	1443.9	4257.1	11501.7	13289.2	17933.1	12039.5
70°	1819.0	1716.1	1374.2	1211.6	1173.4	1141.9	1692.9	5757.5	7379.0	11327.5	7676.1
72.5°	1719.5	1618.2	1276.3	1107.0	1032.3	927.8	1105.4	2355.1	3289.5	5359.2	3482.1
75°	1575.1	1483.8	1178.4	1014.1	907.9	768.4	834.8	1229.8	1475.5	2134.4	1678.0
77.5°	1397.5	1322.8	1068.8	937.7	805.0	624.0	642.3	853.1	946.0	1221.5	997.5
80°	1004.1	1030.7	951.0	843.1	717.0	506.2	492.9	622.4	672.2	785.0	648.9
82.5°	705.4	720.3	786.7	688.8	592.5	398.3	363.5	438.2	468.0	516.2	350.2
85°	486.3	469.7	539.4	479.7	428.2	265.6	249.0	297.1	315.3	320.3	180.9
87.5°	292.1	292.1	312.0	257.3	230.7	137.8	134.4	169.3	180.9	172.6	99.6
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°	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4	9362.4
2.5°	9387.3	9269.4	9018.8	8818.0	8564.1	8300.2	8152.5	7994.8	7886.9	7808.9	7933.4
5°	9458.6	9218.0	8700.2	8208.9	7666.2	7101.9	6673.7	6275.3	5998.2	5825.6	5988.2
7.5°	9571.5	9201.4	8376.5	7536.7	6562.5	5623.1	4783.3	4257.1	3950.1	3799.1	3893.7
10°	9701.0	9174.8	7996.4	6625.5	5231.4	4048.0	3420.6	3208.2	3138.5	3110.3	3123.6
12.5°	9808.8	9118.4	7530.1	5523.5	3928.5	3196.6	3015.7	3010.7	3025.6	3029.0	3033.9
15°	9885.2	9035.4	6838.0	4375.0	3141.8	2912.8	2902.8	2932.7	2960.9	2972.5	2979.2
17.5°	9936.6	8864.5	6056.3	3458.8	2814.9	2775.0	2798.3	2836.4	2866.3	2874.6	2881.2
20°	9931.7	8613.9	5125.2	2884.6	2637.3	2637.3	2677.1	2707.0	2708.6	2698.7	2703.7
22.5°	9880.2	8270.3	4222.3	2579.2	2479.6	2507.8	2547.6	2519.4	2403.2	2326.9	2331.9
25°	9793.9	7860.4	3448.9	2385.0	2333.5	2383.3	2371.7	2159.3	1993.3	1918.6	1918.6
27.5°	9717.6	7375.7	2854.7	2215.7	2187.5	2248.9	2043.1	1850.6	1780.9	1746.0	1734.4
30°	9662.8	6852.9	2458.0	2053.1	2049.7	2004.9	1772.6	1719.5	1707.8	1679.6	1669.7
32.5°	9676.1	6323.5	2204.1	1910.3	1921.9	1716.1	1643.1	1654.7	1644.8	1614.9	1601.6
35°	9785.6	5820.6	2038.1	1780.9	1746.0	1550.2	1566.8	1588.3	1585.0	1543.5	1530.2
37.5°	9981.5	5344.2	1928.6	1673.0	1523.6	1467.2	1493.7	1526.9	1518.6	1490.4	1480.5
40°	10187.3	4896.1	1839.0	1588.3	1392.5	1410.7	1434.0	1452.2	1460.5	1468.8	1462.2
42.5°	10388.1	4428.1	1729.4	1502.0	1337.7	1357.6	1367.6	1385.9	1430.7	1462.2	1460.5
45°	10507.6	3988.3	1616.6	1379.2	1294.6	1306.2	1299.5	1336.1	1390.8	1442.3	1443.9
47.5°	10640.4	3646.4	1526.9	1266.4	1253.1	1261.4	1241.5	1278.0	1327.8	1390.8	1397.5
50°	10801.3	3442.2	1455.6	1176.7	1196.6	1196.6	1191.7	1224.9	1294.6	1367.6	1380.9
52.5°	10983.9	3402.4	1395.8	1112.0	1140.2	1138.6	1143.5	1193.3	1269.7	1341.0	1352.7
55°	11206.3	3510.3	1331.1	1063.9	1085.4	1092.1	1108.7	1165.1	1229.8	1311.2	1316.1
57.5°	11465.2	3729.4	1279.6	1025.7	1035.7	1057.2	1083.8	1135.2	1204.9	1294.6	1299.5
58°	11508.4	3775.8	1271.3	1022.4	1025.7	1050.6	1080.5	1130.3	1200.0	1297.9	1302.9
60°	11510.0	3930.2	1253.1	1007.4	987.5	1029.0	1062.2	1112.0	1191.7	1309.5	1321.1
62.5°	11101.8	3928.5	1239.8	985.9	947.7	999.1	1037.3	1095.4	1183.4	1337.7	1361.0
65°	9775.6	3570.0	1176.7	952.7	916.2	972.6	1015.7	1083.8	1206.6	1460.5	1475.5
67.5°	7646.2	2926.1	1058.9	906.2	874.7	946.0	1002.5	1082.1	1231.5	1488.8	1498.7
70°	5055.5	2189.1	929.4	853.1	831.5	914.5	1009.1	1138.6	1203.3	1429.0	1402.4
72.5°	2624.0	1536.9	824.9	786.7	781.7	886.3	1105.4	1131.9	1175.1	1344.4	1311.2
75°	1377.6	1067.2	733.6	713.7	722.0	879.6	1304.5	1102.0	1138.6	1286.3	1349.3
77.5°	843.1	861.4	655.6	647.3	663.9	859.7	1302.9	1063.9	1085.4	1183.4	1253.1
80°	564.3	698.7	595.8	597.5	609.1	786.7	1170.1	1004.1	1020.7	1118.6	1190.0
82.5°	356.8	413.3	541.1	569.3	554.3	648.9	994.2	914.5	937.7	1279.6	1352.7
85°	180.9	258.9	469.7	547.7	499.6	454.8	806.6	801.6	813.3	922.8	964.3
87.5°	83.0	142.7	366.8	478.0	376.8	283.8	585.9	594.2	640.6	655.6	655.6
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)