

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: P193499

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193499  
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-01-LED-E1-AFL-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4215 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

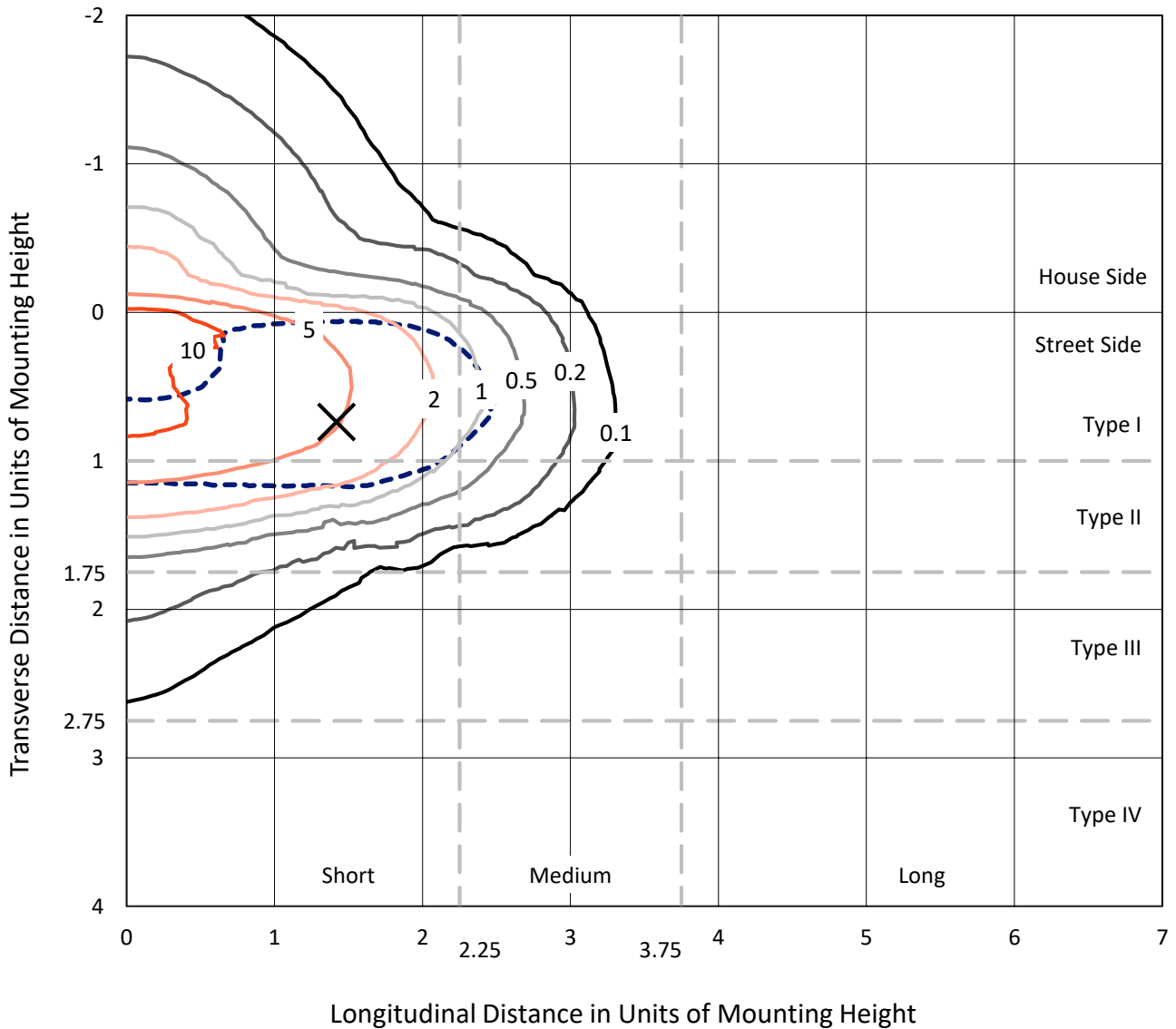


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### Iso-Footcandle Lines of Horizontal Illumination

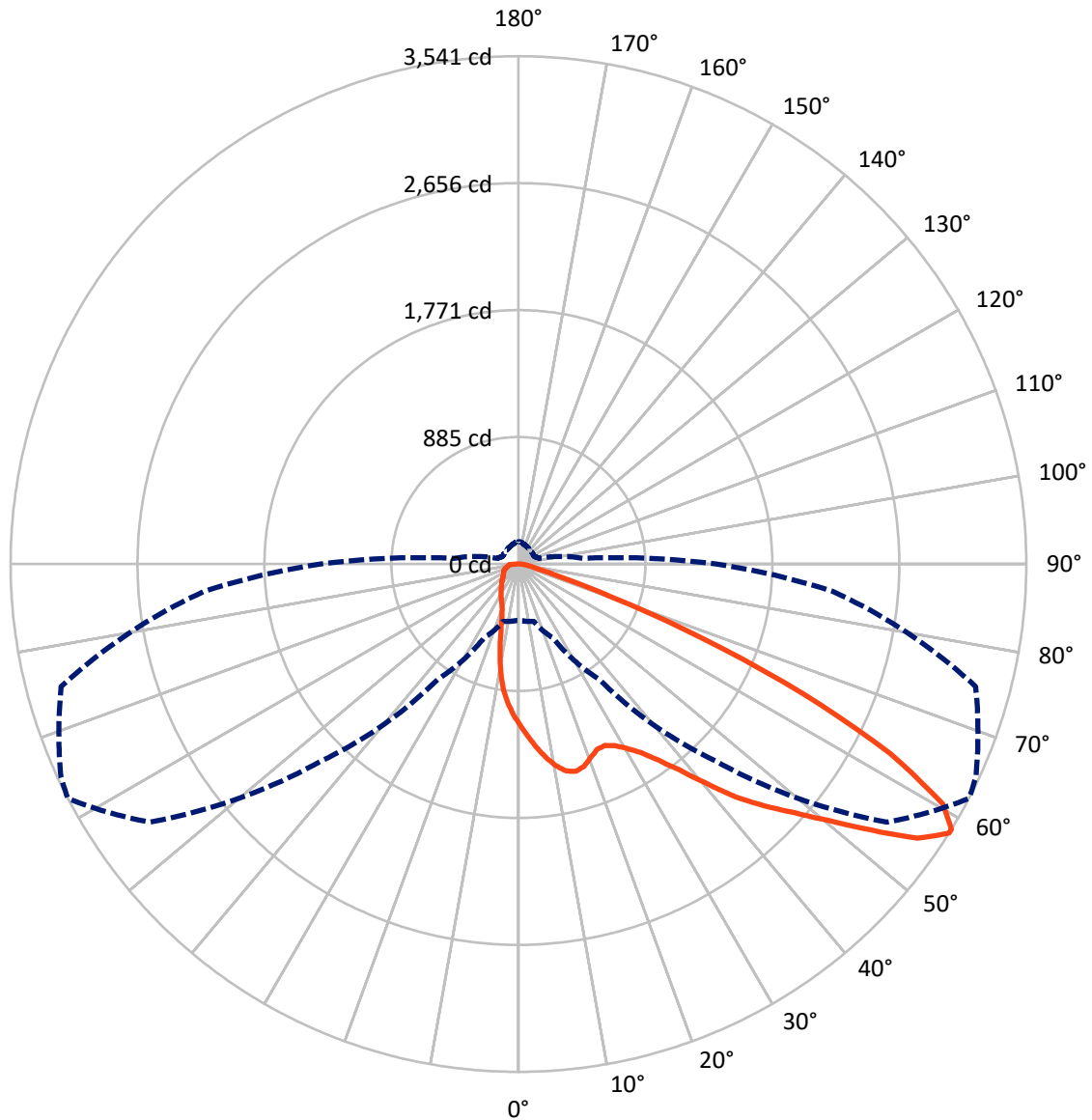
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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
<b>House Side</b>	Lumens	642.8	0.0	642.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	3572.2	0.0	3572.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	4215.0	0.0	4215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	2.4
10°-20°	256.0	6.1
20°-30°	413.8	9.8
30°-40°	656.8	15.6
40°-50°	961.1	22.8
50°-60°	1005.2	23.8
60°-70°	593.9	14.1
70°-80°	167.3	4.0
80°-90°	60.7	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°	4215.0	100.0
0°-180°	4215.0	100.0



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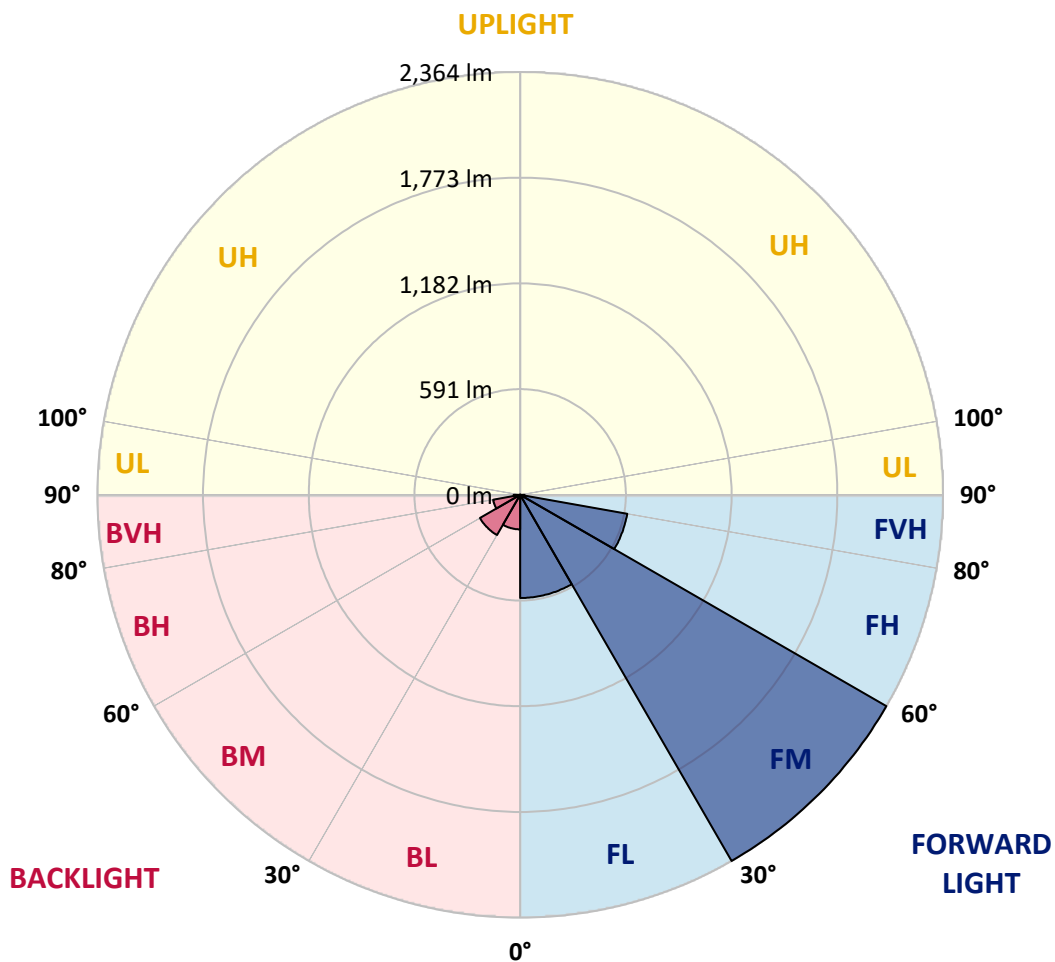
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.7	13.7			
FM (30°-60°)	2363.7	56.1			
FH (60°-80°)	607.8	14.4			G0/660
FVH (80°-90°)	24.0	0.6			G1/100
BL (0°-30°)	193.2	4.6	B1/500		
BM (30°-60°)	259.5	6.2	B1/1000		
BH (60°-80°)	153.4	3.6	B1/500		G1/500
BVH (80°-90°)	36.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
2.5°	1279.4	1269.1	1262.5	1256.8	1249.2	1233.2	1211.5	1197.8	1190.9	1167.3	1139.3
5°	1404.8	1395.7	1389.0	1381.2	1367.7	1342.5	1307.6	1279.8	1266.1	1218.9	1162.9
7.5°	1375.5	1379.2	1391.0	1411.4	1428.9	1425.5	1394.3	1359.0	1340.9	1275.2	1190.3
10°	1198.4	1205.0	1225.2	1273.1	1350.5	1429.9	1454.1	1429.7	1411.4	1331.0	1218.5
12.5°	1162.9	1162.7	1164.3	1177.0	1223.0	1334.8	1456.1	1480.7	1469.7	1384.2	1247.3
15°	1177.4	1177.8	1176.6	1182.0	1196.2	1240.5	1395.3	1500.3	1508.1	1437.8	1277.0
17.5°	1215.5	1214.5	1209.9	1209.9	1215.1	1232.4	1323.9	1482.1	1517.8	1485.2	1303.2
20°	1279.4	1274.8	1262.7	1251.6	1246.1	1255.4	1294.5	1440.0	1500.9	1526.7	1324.9
22.5°	1356.8	1353.2	1333.6	1309.8	1290.5	1290.3	1309.6	1403.3	1471.7	1565.8	1343.1
25°	1456.8	1451.1	1421.9	1383.8	1350.1	1337.2	1342.5	1401.5	1455.9	1608.3	1359.4
27.5°	1574.3	1563.8	1529.3	1474.3	1424.7	1398.7	1391.0	1433.8	1470.3	1660.9	1382.0
30°	1716.9	1704.7	1660.5	1588.8	1518.8	1476.1	1459.6	1491.2	1518.4	1725.0	1418.3
32.5°	1879.0	1861.5	1810.3	1731.3	1639.3	1574.1	1547.4	1567.0	1588.6	1802.2	1463.8
35°	2103.1	2082.3	2008.2	1899.3	1795.3	1705.7	1662.9	1677.2	1698.2	1917.3	1529.5
37.5°	2255.9	2246.6	2197.4	2095.0	1981.8	1878.8	1812.5	1820.9	1832.8	2061.2	1613.6
40°	2254.5	2258.3	2259.3	2260.3	2183.3	2084.6	2013.4	2004.7	2002.3	2219.2	1709.3
42.5°	2141.6	2157.1	2207.1	2308.5	2355.4	2310.1	2244.8	2219.6	2207.1	2405.4	1810.7
45°	1968.7	1977.1	2070.7	2268.8	2443.5	2533.4	2484.0	2404.6	2382.0	2576.5	1894.9
47.5°	1879.6	1888.7	1947.7	2163.6	2442.5	2713.8	2742.4	2591.2	2550.7	2725.3	1967.5
50°	1667.4	1686.5	1760.7	1980.6	2353.4	2796.8	3012.5	2813.5	2729.7	2870.2	2040.4
52.5°	1277.8	1307.2	1390.4	1679.7	2127.3	2755.7	3228.7	3083.0	2964.7	3020.3	2102.9
55°	806.0	827.9	897.7	1186.3	1701.8	2541.9	3310.7	3374.6	3269.4	3162.4	2157.1
57.5°	438.2	448.0	474.2	655.0	1106.9	2069.4	3191.2	3540.5	3496.8	3283.1	2198.0
58°	392.2	398.7	415.0	567.7	981.7	1940.1	3138.2	3541.1	3519.3	3300.7	2201.1
60°	291.0	287.6	273.1	323.9	546.4	1340.3	2817.8	3399.4	3463.5	3322.4	2185.7
62.5°	255.6	247.5	217.9	214.6	265.8	617.5	2156.1	2911.9	3063.3	3198.9	2091.6
65°	240.2	231.4	193.3	181.0	191.7	261.2	1270.1	2183.9	2373.8	2824.6	1851.0
67.5°	228.6	217.3	177.6	160.8	161.6	172.7	509.1	1375.5	1589.2	2144.6	1439.8
70°	217.5	205.2	164.3	144.9	140.3	136.6	202.5	688.5	882.4	1354.6	918.0
72.5°	205.6	193.5	152.6	132.4	123.5	111.0	132.2	281.6	393.4	640.9	416.4
75°	188.4	177.4	140.9	121.3	108.6	91.9	99.8	147.1	176.4	255.2	200.7
77.5°	167.1	158.2	127.8	112.1	96.3	74.6	76.8	102.0	113.1	146.1	119.3
80°	120.1	123.3	113.7	100.8	85.7	60.5	58.9	74.4	80.4	93.9	77.6
82.5°	84.4	86.1	94.1	82.4	70.9	47.6	43.5	52.4	56.0	61.7	41.9
85°	58.2	56.2	64.5	57.4	51.2	31.8	29.8	35.5	37.7	38.3	21.6
87.5°	34.9	34.9	37.3	30.8	27.6	16.5	16.1	20.2	21.6	20.6	11.9
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°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
2.5°	1122.6	1108.5	1078.5	1054.5	1024.2	992.6	974.9	956.1	943.2	933.9	948.7
5°	1131.1	1102.4	1040.4	981.7	916.8	849.3	798.1	750.5	717.3	696.7	716.1
7.5°	1144.6	1100.4	1001.7	901.3	784.8	672.5	572.0	509.1	472.4	454.3	465.6
10°	1160.1	1097.2	956.3	792.3	625.6	484.1	409.1	383.7	375.3	372.0	373.5
12.5°	1173.0	1090.5	900.5	660.5	469.8	382.3	360.6	360.0	361.8	362.2	362.8
15°	1182.2	1080.5	817.7	523.2	375.7	348.3	347.1	350.7	354.1	355.5	356.3
17.5°	1188.3	1060.1	724.3	413.6	336.6	331.9	334.6	339.2	342.8	343.8	344.6
20°	1187.7	1030.1	612.9	345.0	315.4	315.4	320.1	323.7	323.9	322.7	323.3
22.5°	1181.6	989.0	504.9	308.4	296.5	299.9	304.7	301.3	287.4	278.3	278.9
25°	1171.2	940.0	412.4	285.2	279.1	285.0	283.6	258.2	238.4	229.4	229.4
27.5°	1162.1	882.0	341.4	265.0	261.6	268.9	244.3	221.3	213.0	208.8	207.4
30°	1155.6	819.5	293.9	245.5	245.1	239.8	212.0	205.6	204.2	200.9	199.7
32.5°	1157.1	756.2	263.6	228.5	229.8	205.2	196.5	197.9	196.7	193.1	191.5
35°	1170.2	696.1	243.7	213.0	208.8	185.4	187.4	189.9	189.5	184.6	183.0
37.5°	1193.7	639.1	230.6	200.1	182.2	175.5	178.6	182.6	181.6	178.2	177.0
40°	1218.3	585.5	219.9	189.9	166.5	168.7	171.5	173.7	174.7	175.7	174.9
42.5°	1242.3	529.5	206.8	179.6	160.0	162.4	163.5	165.7	171.1	174.9	174.7
45°	1256.6	476.9	193.3	164.9	154.8	156.2	155.4	159.8	166.3	172.5	172.7
47.5°	1272.5	436.1	182.6	151.4	149.9	150.8	148.5	152.8	158.8	166.3	167.1
50°	1291.7	411.6	174.1	140.7	143.1	143.1	142.5	146.5	154.8	163.5	165.1
52.5°	1313.5	406.9	166.9	133.0	136.4	136.2	136.8	142.7	151.8	160.4	161.8
55°	1340.1	419.8	159.2	127.2	129.8	130.6	132.6	139.3	147.1	156.8	157.4
57.5°	1371.1	446.0	153.0	122.7	123.9	126.4	129.6	135.8	144.1	154.8	155.4
58°	1376.3	451.5	152.0	122.3	122.7	125.6	129.2	135.2	143.5	155.2	155.8
60°	1376.5	470.0	149.9	120.5	118.1	123.1	127.0	133.0	142.5	156.6	158.0
62.5°	1327.6	469.8	148.3	117.9	113.3	119.5	124.1	131.0	141.5	160.0	162.8
65°	1169.1	426.9	140.7	113.9	109.6	116.3	121.5	129.6	144.3	174.7	176.4
67.5°	914.4	349.9	126.6	108.4	104.6	113.1	119.9	129.4	147.3	178.0	179.2
70°	604.6	261.8	111.1	102.0	99.4	109.4	120.7	136.2	143.9	170.9	167.7
72.5°	313.8	183.8	98.6	94.1	93.5	106.0	132.2	135.4	140.5	160.8	156.8
75°	164.7	127.6	87.7	85.3	86.3	105.2	156.0	131.8	136.2	153.8	161.4
77.5°	100.8	103.0	78.4	77.4	79.4	102.8	155.8	127.2	129.8	141.5	149.9
80°	67.5	83.6	71.3	71.5	72.8	94.1	139.9	120.1	122.1	133.8	142.3
82.5°	42.7	49.4	64.7	68.1	66.3	77.6	118.9	109.4	112.1	153.0	161.8
85°	21.6	31.0	56.2	65.5	59.7	54.4	96.5	95.9	97.3	110.4	115.3
87.5°	9.9	17.1	43.9	57.2	45.1	33.9	70.1	71.1	76.6	78.4	78.4
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)