

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: P190900

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-5WQ-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14396 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

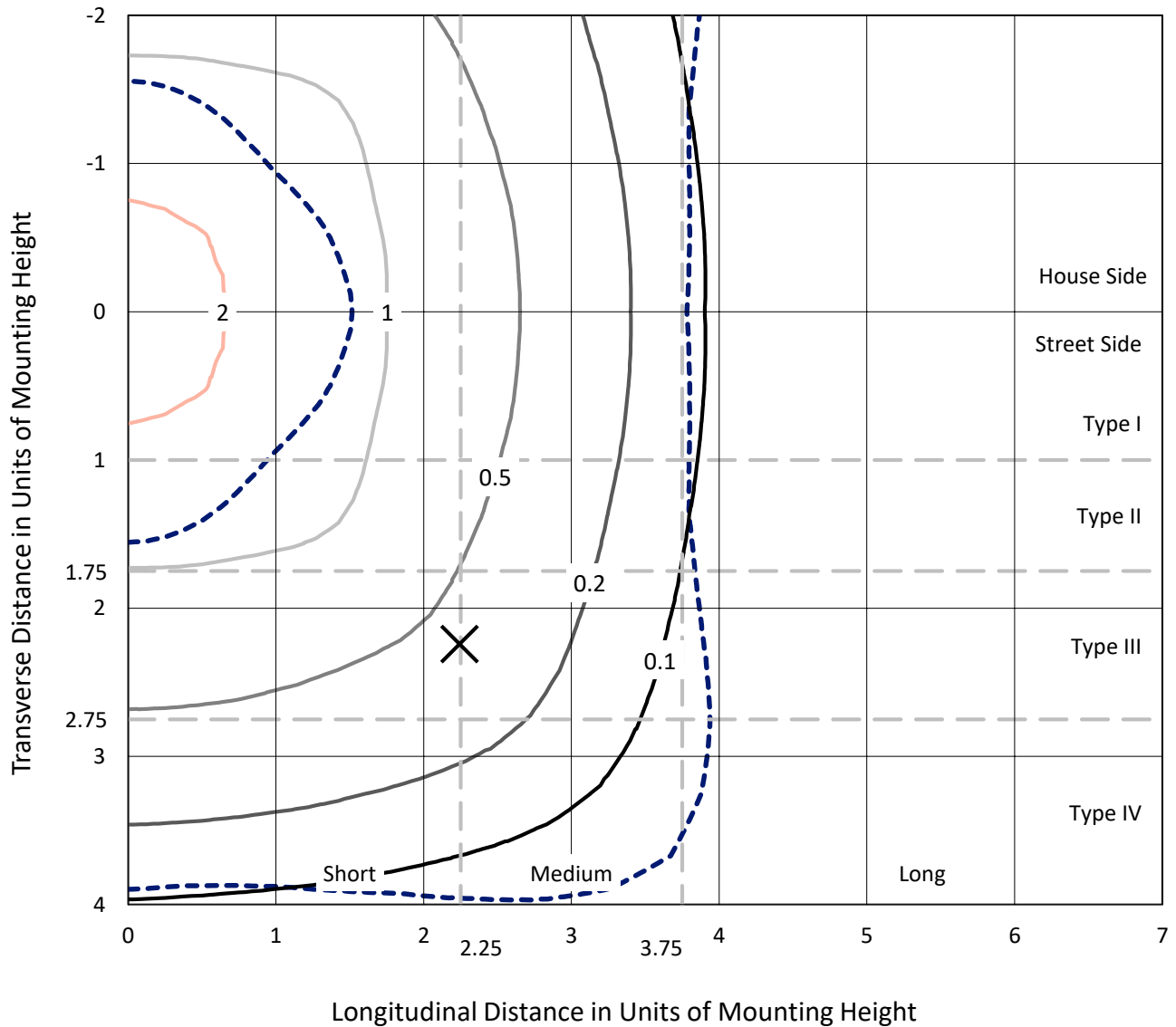
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

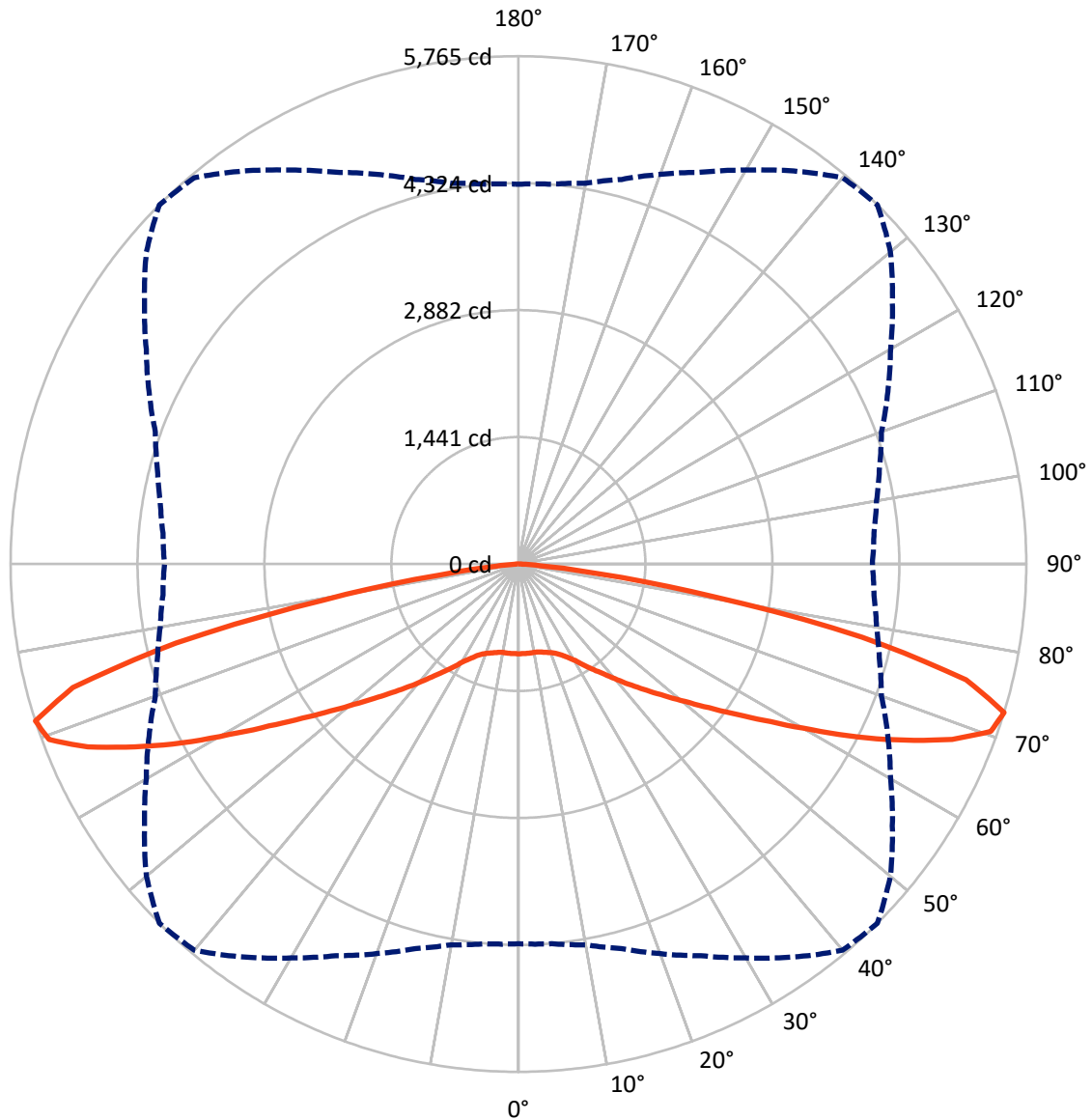
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7198.0	0.0	7198.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7198.0	0.0	7198.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14396.0	0.0	14396.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	0.7
10°-20°	295.7	2.1
20°-30°	540.3	3.8
30°-40°	931.5	6.5
40°-50°	1592.4	11.1
50°-60°	2581.2	17.9
60°-70°	4282.0	29.7
70°-80°	3771.5	26.2
80°-90°	304.1	2.1
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°	14396.0	100.0
0°-180°	14396.0	100.0



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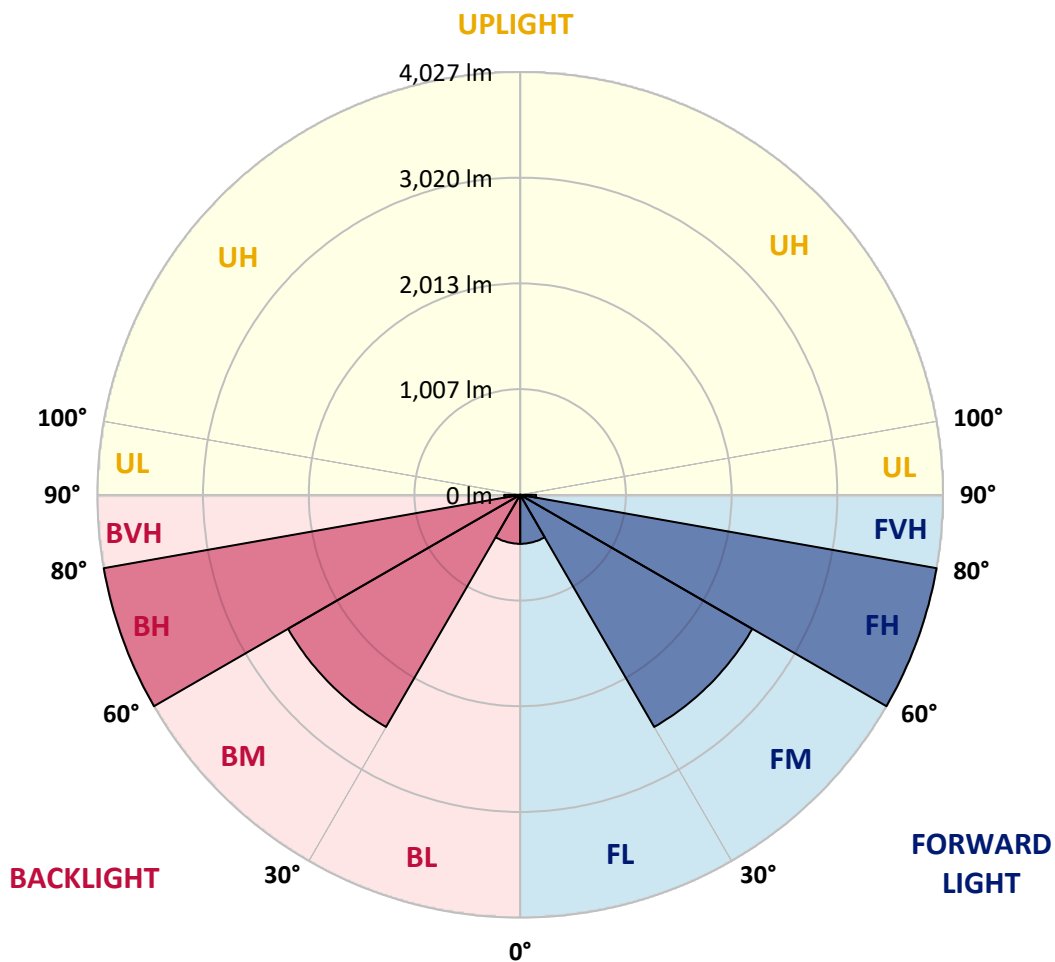
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.6	3.2			
FM	(30°-60°)	2552.6	17.7			
FH	(60°-80°)	4026.8	28.0			G2/5000
FVH	(80°-90°)	152.0	1.1			G2/225
BL	(0°-30°)	466.6	3.2	B1/500		
BM	(30°-60°)	2552.6	17.7	B3/5000		
BH	(60°-80°)	4026.8	28.0	B4/5000		G2/5000
BVH	(80°-90°)	152.0	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5
2.5°	1019.5	1020.1	1020.8	1020.1	1020.1	1019.5	1018.8	1019.5	1018.8	1017.5	1018.1
5°	1022.7	1024.1	1024.1	1022.7	1023.5	1022.7	1021.4	1022.1	1020.8	1018.8	1018.8
7.5°	1026.7	1027.3	1027.3	1026.0	1026.7	1025.4	1024.1	1023.5	1022.1	1019.5	1017.5
10°	1032.7	1033.3	1032.7	1031.3	1031.3	1029.4	1026.0	1024.8	1022.1	1018.1	1016.2
12.5°	1039.3	1039.9	1039.3	1038.0	1037.3	1034.0	1031.3	1029.4	1027.3	1024.1	1020.8
15°	1048.5	1049.9	1048.5	1045.9	1043.9	1041.3	1039.9	1040.5	1041.3	1038.6	1035.3
17.5°	1065.7	1066.3	1064.4	1058.4	1055.8	1053.1	1053.1	1054.5	1056.4	1055.1	1051.8
20°	1097.4	1095.4	1090.8	1083.5	1080.2	1075.6	1074.9	1075.6	1075.6	1074.9	1072.3
22.5°	1137.0	1135.7	1129.7	1120.4	1115.8	1113.2	1109.3	1105.9	1105.3	1103.4	1100.7
25°	1184.6	1183.9	1176.6	1168.7	1165.3	1162.1	1158.8	1154.2	1150.2	1145.6	1142.9
27.5°	1245.2	1242.7	1232.0	1228.2	1223.4	1221.5	1216.9	1211.6	1208.3	1202.4	1199.1
30°	1311.9	1311.9	1303.3	1302.0	1302.0	1297.4	1292.2	1282.9	1276.9	1271.0	1269.1
32.5°	1378.6	1379.3	1370.8	1373.4	1375.4	1378.6	1380.0	1376.7	1372.7	1372.1	1368.1
35°	1475.1	1472.4	1463.8	1465.8	1465.2	1464.5	1464.5	1471.7	1473.0	1474.4	1466.5
37.5°	1594.6	1594.6	1586.0	1586.0	1582.0	1578.0	1572.8	1577.4	1584.7	1586.6	1581.4
40°	1731.2	1735.8	1725.3	1724.6	1725.9	1713.4	1707.5	1714.8	1719.4	1727.3	1721.3
42.5°	1892.4	1889.1	1878.4	1877.1	1869.9	1866.0	1860.6	1866.6	1873.8	1879.2	1881.1
45°	2046.8	2044.2	2032.3	2032.3	2025.0	2021.8	2024.4	2034.3	2037.6	2044.9	2052.1
47.5°	2199.3	2196.1	2188.1	2191.5	2192.1	2198.0	2206.6	2215.9	2225.1	2235.0	2238.3
50°	2355.1	2355.9	2347.3	2355.1	2365.1	2381.6	2404.8	2419.9	2439.0	2451.6	2455.6
52.5°	2497.1	2499.8	2509.0	2527.5	2547.4	2579.7	2619.3	2656.3	2688.0	2709.1	2707.8
55°	2667.4	2671.4	2693.9	2725.7	2758.0	2806.8	2865.6	2931.0	2983.7	3014.1	2995.0
57.5°	2885.4	2893.9	2919.1	2962.0	3010.1	3073.6	3154.2	3252.5	3334.4	3375.3	3344.2
60°	3184.4	3189.8	3220.1	3267.7	3325.8	3404.4	3512.0	3644.1	3759.5	3813.8	3778.1
62.5°	3578.7	3588.6	3613.0	3661.2	3720.7	3809.8	3941.1	4106.2	4250.2	4325.4	4244.8
65°	4049.5	4081.2	4101.6	4150.4	4206.0	4300.4	4437.7	4614.6	4769.1	4818.7	4725.5
67.5°	4515.6	4543.3	4579.0	4635.1	4691.3	4797.5	4925.0	5096.6	5266.4	5311.3	5166.6
70°	4719.6	4735.4	4790.9	4867.5	4975.1	5100.6	5247.8	5440.7	5650.6	5687.6	5504.0
72.5°	4310.9	4326.8	4388.9	4518.9	4706.4	4905.9	5162.6	5445.9	5723.2	5764.8	5512.0
75°	3260.5	3234.7	3326.4	3498.8	3751.7	4029.6	4388.9	4794.9	5195.7	5247.8	4946.1
77.5°	1685.0	1681.7	1751.1	1965.0	2266.8	2583.0	2978.5	3437.4	3829.6	3988.1	3742.5
80°	474.8	480.0	513.0	619.3	795.7	1024.1	1333.1	1763.0	2083.9	2247.5	2110.2
82.5°	186.2	200.7	213.3	233.0	256.1	289.9	386.9	575.7	772.5	923.1	756.0
85°	66.7	71.3	101.1	119.5	121.5	128.1	145.9	170.3	205.3	245.0	201.4
87.5°	25.1	27.7	32.3	53.5	52.8	48.2	58.7	61.4	46.2	42.2	52.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5
2.5°	1016.8	1017.5	1017.5	1018.1	1018.8	1018.8	1020.1	1020.1
5°	1017.5	1017.5	1016.2	1016.8	1016.2	1016.2	1016.8	1016.8
7.5°	1016.2	1015.5	1014.2	1013.5	1012.2	1012.2	1012.2	1012.2
10°	1014.2	1013.5	1012.2	1011.5	1010.9	1010.9	1010.9	1010.9
12.5°	1019.5	1017.5	1016.2	1015.5	1015.5	1015.5	1015.5	1015.5
15°	1033.3	1028.7	1025.4	1025.4	1026.0	1027.3	1027.3	1028.7
17.5°	1050.5	1045.3	1041.9	1039.3	1040.5	1042.6	1043.9	1045.3
20°	1070.9	1068.4	1063.7	1061.1	1061.1	1063.7	1065.0	1065.7
22.5°	1099.4	1097.4	1095.4	1092.1	1092.1	1093.4	1096.1	1096.1
25°	1141.6	1140.3	1139.0	1136.3	1135.7	1135.7	1137.0	1138.3
27.5°	1194.4	1195.1	1193.8	1193.1	1191.1	1190.5	1192.5	1191.8
30°	1265.1	1268.4	1271.7	1269.1	1265.7	1263.8	1261.8	1259.2
32.5°	1360.8	1356.8	1354.2	1349.6	1343.6	1338.3	1334.4	1329.8
35°	1451.3	1444.7	1442.1	1446.0	1445.3	1442.1	1437.5	1433.5
37.5°	1562.3	1560.9	1562.3	1569.5	1568.2	1571.5	1562.3	1561.5
40°	1702.2	1703.5	1712.7	1721.3	1725.9	1730.5	1725.3	1720.0
42.5°	1864.6	1863.9	1867.3	1879.2	1887.0	1892.4	1881.1	1879.8
45°	2036.3	2031.7	2034.3	2044.2	2052.1	2058.1	2045.5	2045.5
47.5°	2225.1	2217.1	2208.7	2219.8	2224.4	2228.4	2218.5	2215.2
50°	2435.7	2419.3	2400.8	2405.4	2405.4	2404.0	2391.5	2390.8
52.5°	2677.4	2647.0	2613.3	2600.9	2593.6	2585.6	2563.8	2553.3
55°	2955.4	2909.8	2857.0	2824.7	2807.5	2785.7	2749.4	2739.5
57.5°	3280.2	3208.9	3117.9	3078.2	3039.9	3004.2	2964.0	2952.7
60°	3665.1	3560.2	3439.4	3366.0	3324.5	3290.1	3248.6	3246.5
62.5°	4094.4	3928.6	3792.0	3725.9	3695.5	3665.1	3625.5	3630.9
65°	4530.8	4357.8	4229.7	4176.2	4147.9	4122.7	4083.1	4089.0
67.5°	4961.3	4802.1	4661.5	4606.8	4575.0	4543.3	4507.6	4513.7
70°	5270.2	5072.9	4914.4	4792.9	4717.0	4631.1	4575.7	4561.8
72.5°	5181.9	4877.4	4625.9	4384.9	4243.6	4128.6	4050.8	4017.1
75°	4484.6	4068.6	3745.0	3449.3	3282.9	3147.5	3049.1	2987.7
77.5°	3330.4	2862.9	2480.7	2139.9	1870.6	1689.6	1562.3	1479.7
80°	1823.0	1386.6	1013.5	712.4	523.5	435.2	384.3	359.9
82.5°	567.8	366.4	270.1	233.0	216.6	207.4	192.1	167.7
85°	181.0	158.5	147.2	140.7	134.0	116.8	80.5	73.2
87.5°	70.0	72.0	71.3	67.3	68.6	49.5	39.6	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)