

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: P269186

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-T3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10404.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

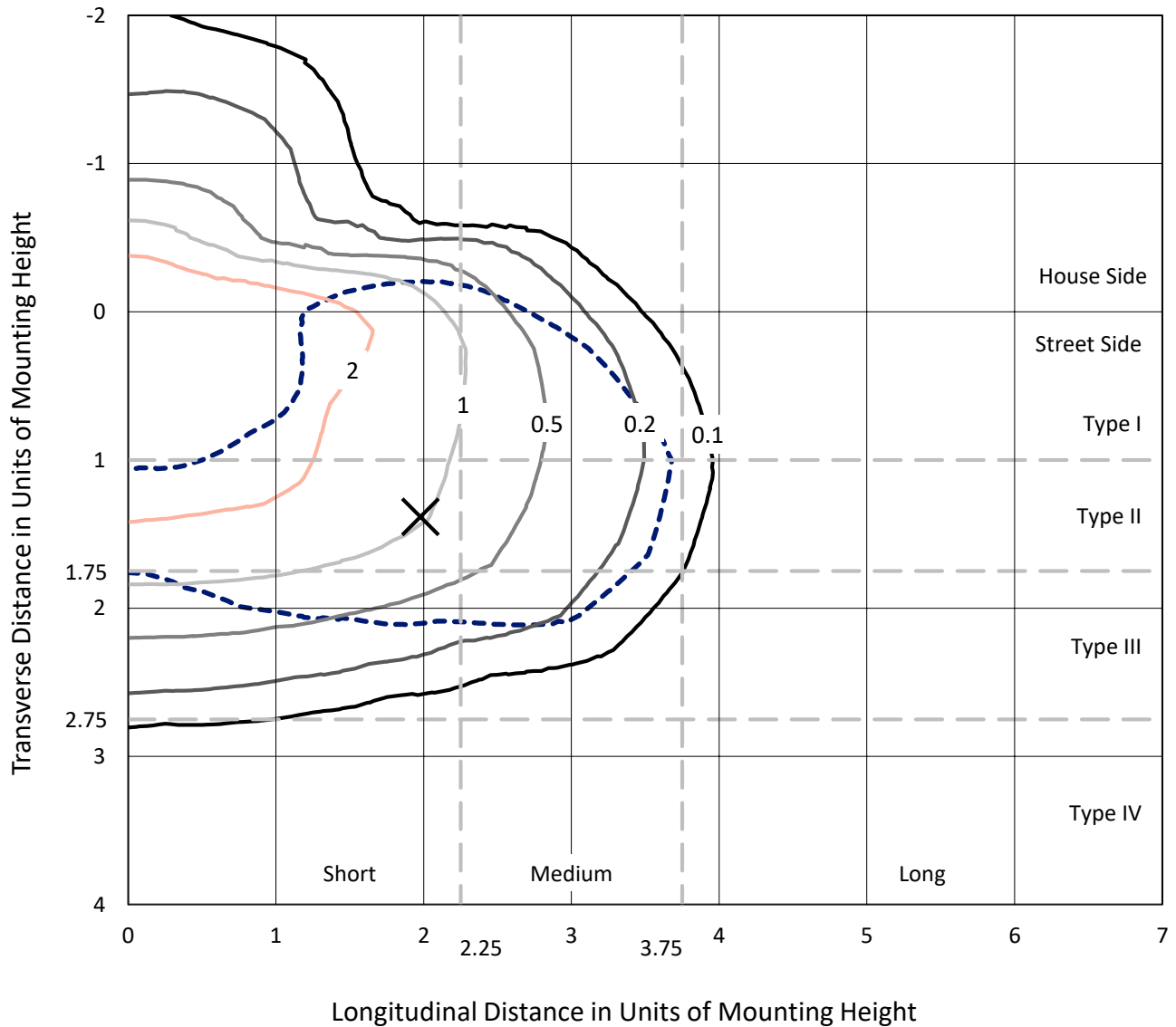
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

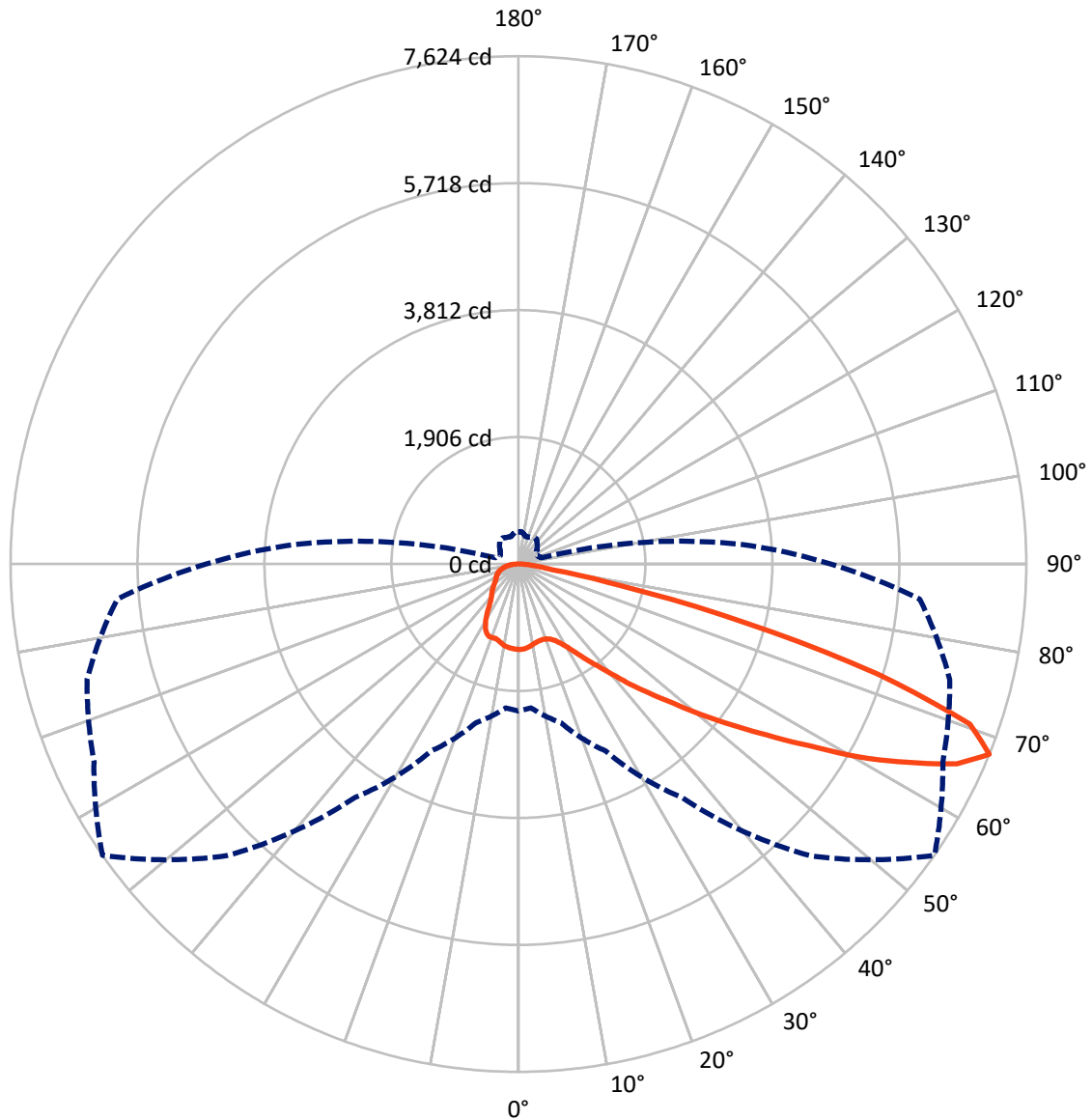
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2247.6	0.0	2247.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	8157.0	0.0	8157.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	10404.7	0.0	10404.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	1.2
10°-20°	339.2	3.3
20°-30°	568.1	5.5
30°-40°	934.3	9.0
40°-50°	1572.7	15.1
50°-60°	2475.3	23.8
60°-70°	2954.0	28.4
70°-80°	1268.5	12.2
80°-90°	172.9	1.7
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°	10404.7	100.0
0°-180°	10404.7	100.0



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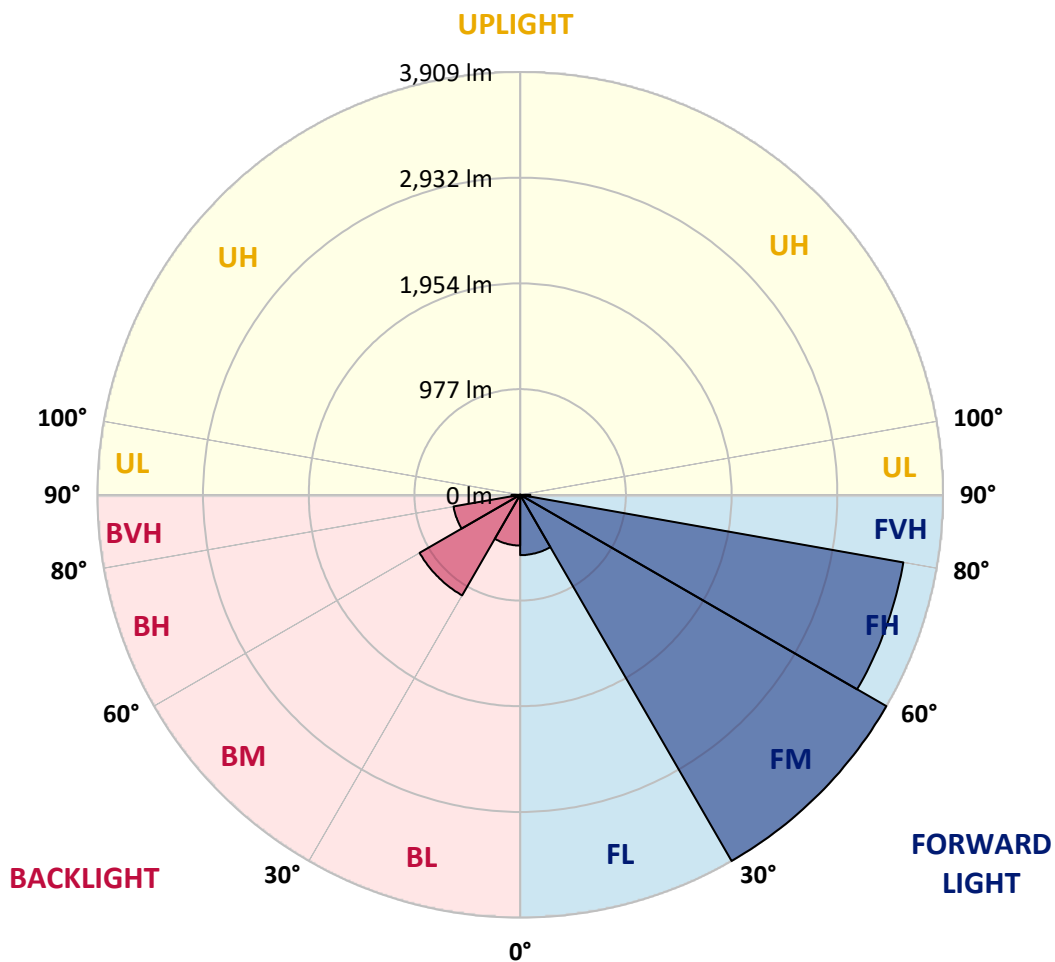
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.7	5.4			
FM (30°-60°)	3908.8	37.6			
FH (60°-80°)	3596.9	34.6			G2/5000
FVH (80°-90°)	93.6	0.9			G1/100
BL (0°-30°)	469.4	4.5	B1/500		
BM (30°-60°)	1073.4	10.3	B2/2500		
BH (60°-80°)	625.5	6.0	B2/1000		G2/1000
BVH (80°-90°)	79.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1272.0	1272.4	1273.4	1277.5	1281.1	1279.9	1280.5	1278.5	1278.0	1275.0	1278.0
5°	1255.9	1257.4	1257.8	1264.5	1268.4	1269.5	1268.0	1265.4	1262.4	1259.5	1261.0
7.5°	1219.2	1223.2	1223.8	1232.7	1239.3	1247.8	1248.4	1248.9	1247.3	1245.3	1248.4
10°	1196.1	1197.1	1196.5	1203.1	1208.1	1217.7	1223.2	1232.7	1236.7	1237.8	1239.8
12.5°	1194.6	1193.6	1192.1	1192.1	1190.6	1194.6	1204.5	1218.2	1227.8	1230.8	1233.3
15°	1210.6	1210.1	1205.2	1197.6	1188.0	1185.0	1193.6	1208.6	1221.2	1227.8	1230.3
17.5°	1246.8	1243.9	1235.8	1218.7	1198.1	1190.1	1191.1	1203.5	1218.2	1226.7	1229.2
20°	1313.1	1313.1	1296.1	1263.9	1227.3	1208.1	1199.1	1206.7	1220.6	1232.3	1235.8
22.5°	1427.8	1428.8	1400.1	1347.4	1285.6	1244.8	1222.2	1220.6	1237.2	1250.4	1254.4
25°	1590.1	1586.0	1545.9	1470.4	1376.6	1309.1	1269.9	1261.0	1275.0	1289.5	1294.5
27.5°	1779.1	1764.5	1716.8	1625.8	1504.1	1405.7	1345.3	1330.7	1344.4	1360.9	1366.0
30°	1966.0	1950.8	1894.2	1794.6	1659.3	1534.8	1448.3	1424.7	1443.8	1467.4	1470.4
32.5°	2152.9	2152.9	2089.5	1973.5	1826.3	1689.1	1585.6	1557.4	1589.0	1617.7	1624.2
35°	2376.6	2377.5	2316.3	2176.6	2018.2	1873.0	1758.9	1738.3	1786.1	1806.1	1821.8
37.5°	2651.4	2656.9	2578.0	2409.3	2235.8	2083.1	1947.3	1919.3	1967.0	2021.7	2072.0
40°	2948.4	2955.6	2868.6	2660.5	2487.0	2327.2	2180.5	2129.8	2209.2	2313.8	2378.6
42.5°	3231.9	3268.0	3184.1	2970.1	2783.6	2618.3	2469.5	2395.7	2495.1	2653.0	2709.3
45°	3641.5	3667.6	3521.4	3327.4	3152.1	2967.0	2770.1	2692.2	2831.4	3030.4	3041.9
47.5°	3914.4	3894.8	3820.4	3699.8	3588.6	3415.9	3119.4	3033.8	3218.8	3453.1	3388.1
50°	4059.6	4065.5	4055.6	4062.7	4066.6	3958.1	3547.4	3430.4	3651.0	3933.9	3784.6
52.5°	4195.3	4155.1	4188.3	4353.0	4552.2	4511.8	4013.4	3891.3	4114.3	4467.7	4203.9
55°	4192.3	4130.9	4239.0	4530.1	4961.7	5008.0	4536.5	4395.8	4604.4	5040.1	4648.1
57.5°	4044.0	4047.0	4213.4	4594.3	5247.1	5474.4	5143.6	4932.6	5124.0	5620.1	5053.7
60°	3840.0	3867.7	4107.3	4583.7	5475.8	5856.7	5888.4	5510.9	5633.1	6147.2	5389.3
62.5°	3510.8	3540.0	3870.6	4474.2	5441.2	6225.1	6561.8	6167.4	6165.2	6466.8	5487.8
65°	2991.6	2983.1	3330.3	4064.7	5150.2	6497.5	7230.6	6734.7	6566.3	6471.8	5289.8
67.5°	2206.1	2168.0	2465.9	3095.6	4280.8	6192.5	7624.2	7030.1	6703.1	6046.2	4684.8
70°	1144.8	1106.6	1347.8	1807.7	2815.3	4833.1	7188.4	6877.5	6401.1	5068.1	3670.1
72.5°	489.4	483.0	580.9	793.1	1361.9	2787.6	5636.7	5952.7	5492.3	3776.1	2523.2
75°	329.1	327.2	363.9	432.2	612.6	1131.2	3527.5	4225.4	4018.4	2341.4	1419.2
77.5°	258.4	255.7	277.3	310.5	397.1	446.3	1565.4	2268.5	2099.7	1019.1	621.2
80°	201.9	200.1	213.5	231.7	285.4	281.3	515.1	902.5	698.5	390.5	302.0
82.5°	159.3	159.3	170.4	170.9	202.5	192.0	268.9	397.5	348.8	227.7	185.0
85°	145.7	145.7	157.4	127.6	132.2	121.1	166.8	235.6	221.2	93.5	80.4
87.5°	73.4	71.3	132.2	113.0	71.9	64.3	81.3	114.1	122.6	51.7	40.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0	1283.0
2.5°	1277.0	1276.5	1277.5	1278.0	1282.1	1287.5	1290.1	1293.6	1295.5	1294.5
5°	1261.8	1262.8	1266.9	1269.9	1277.0	1286.1	1291.0	1295.0	1298.6	1297.2
7.5°	1249.4	1251.9	1257.8	1260.4	1264.5	1266.9	1266.4	1268.0	1270.9	1267.4
10°	1242.3	1245.3	1249.8	1246.3	1236.7	1223.2	1210.6	1204.1	1206.2	1203.5
12.5°	1235.3	1239.3	1235.8	1219.2	1192.6	1175.0	1165.5	1166.4	1170.9	1172.0
15°	1231.2	1232.7	1217.7	1186.5	1159.4	1156.8	1161.9	1160.9	1161.4	1161.4
17.5°	1231.2	1227.3	1199.1	1167.9	1156.4	1151.8	1136.3	1116.7	1108.1	1105.2
20°	1237.8	1227.3	1193.0	1172.5	1147.3	1108.6	1067.5	1031.3	1015.2	1010.7
22.5°	1257.4	1239.3	1210.1	1174.4	1103.1	1038.4	973.0	929.7	900.6	895.5
25°	1297.2	1277.0	1243.9	1147.9	1032.7	940.3	865.8	817.6	788.5	784.5
27.5°	1366.4	1353.3	1261.8	1089.0	939.3	840.3	771.5	734.3	712.6	711.1
30°	1471.0	1464.4	1252.9	1002.1	824.1	743.3	710.1	688.6	672.4	671.9
32.5°	1637.8	1585.1	1223.2	896.1	719.2	674.4	660.9	647.8	635.2	635.2
35°	1852.5	1682.5	1166.9	782.5	655.4	636.2	619.1	598.5	581.9	580.9
37.5°	2104.6	1742.8	1065.8	690.9	625.2	610.6	585.4	554.9	525.7	520.7
40°	2359.5	1760.9	923.6	634.7	606.0	584.9	554.3	518.1	489.9	488.5
42.5°	2593.1	1726.3	772.9	596.0	587.0	558.8	526.6	494.4	472.4	471.9
45°	2789.1	1636.4	646.3	559.4	566.9	535.2	506.6	480.5	463.3	459.8
47.5°	2973.6	1509.2	557.3	520.7	546.8	522.2	498.0	473.3	456.8	454.4
50°	3187.6	1371.9	495.1	483.0	529.2	517.7	505.0	479.4	451.8	448.8
52.5°	3446.9	1253.3	446.3	449.8	515.5	523.6	523.2	496.6	448.3	444.2
55°	3736.5	1121.8	409.5	422.7	510.1	534.8	527.7	512.7	451.3	445.3
57.5°	4021.4	968.0	383.9	402.0	502.1	533.8	506.0	484.5	458.3	449.8
60°	4235.0	761.4	364.4	383.9	484.5	517.2	482.5	453.9	456.8	450.3
62.5°	4249.1	588.5	340.7	368.3	457.9	500.5	466.8	440.2	463.3	457.2
65°	3999.3	444.8	318.1	349.8	429.2	489.9	451.8	432.8	476.9	470.4
67.5°	3367.0	357.9	299.0	330.7	400.6	467.8	438.3	425.6	488.9	477.4
70°	2430.9	305.1	280.5	307.6	375.0	442.8	426.2	413.1	456.2	438.3
72.5°	1496.5	264.3	259.3	276.9	355.3	416.6	408.1	389.4	411.1	396.5
75°	747.3	229.2	235.6	246.8	327.6	387.0	377.8	359.3	362.3	359.3
77.5°	357.9	196.0	208.0	216.6	291.9	353.4	343.7	324.6	321.1	321.7
80°	226.6	163.9	175.3	181.4	260.8	314.0	304.5	285.4	325.6	302.0
82.5°	141.8	133.2	136.3	147.2	227.1	273.4	260.8	243.7	293.4	232.2
85°	78.4	93.0	96.9	106.5	174.9	228.7	216.1	194.6	174.5	171.3
87.5°	46.7	55.2	56.9	63.8	117.6	165.4	146.2	138.7	115.2	114.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)