

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: P191499

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7150.4 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

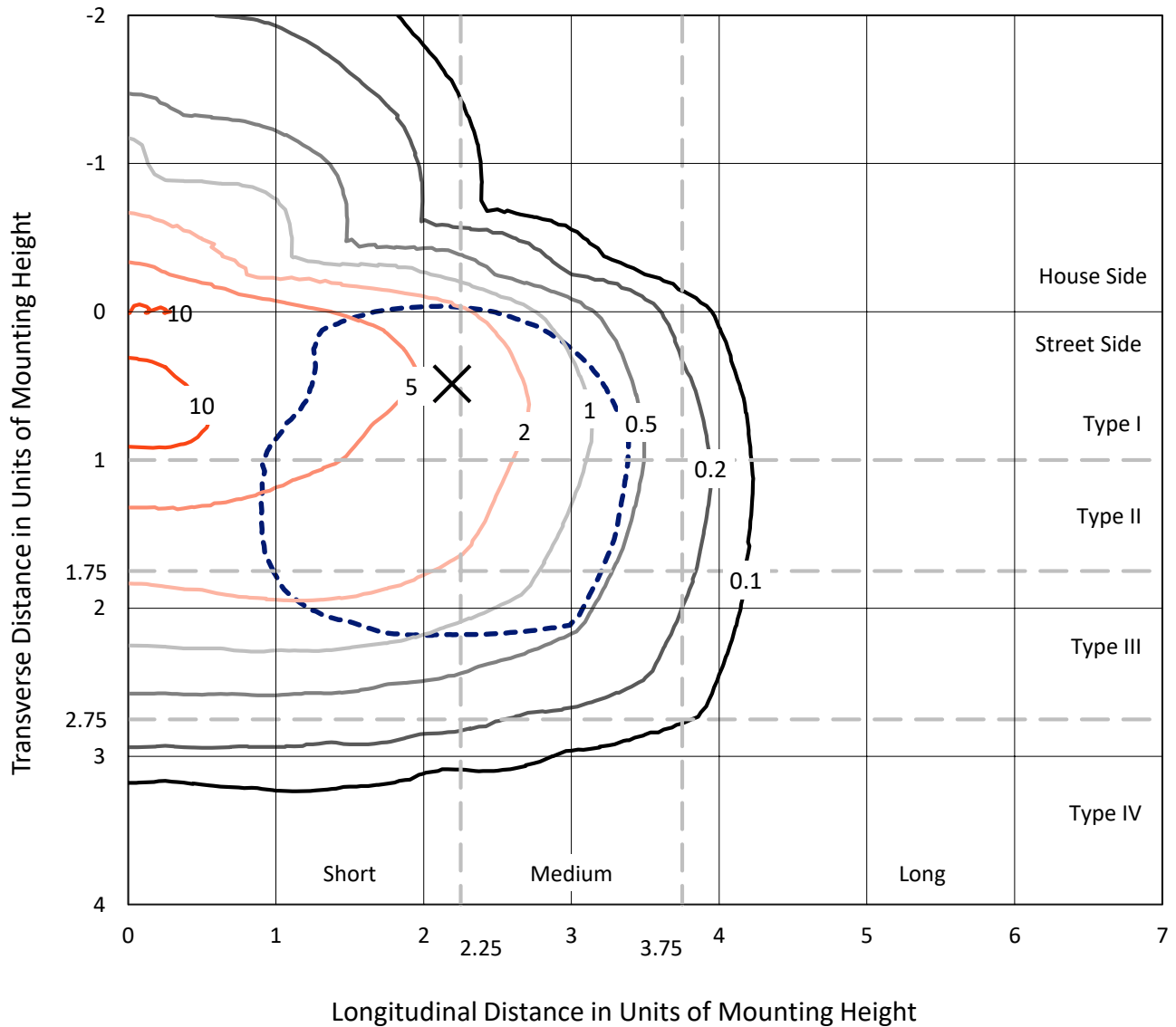
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

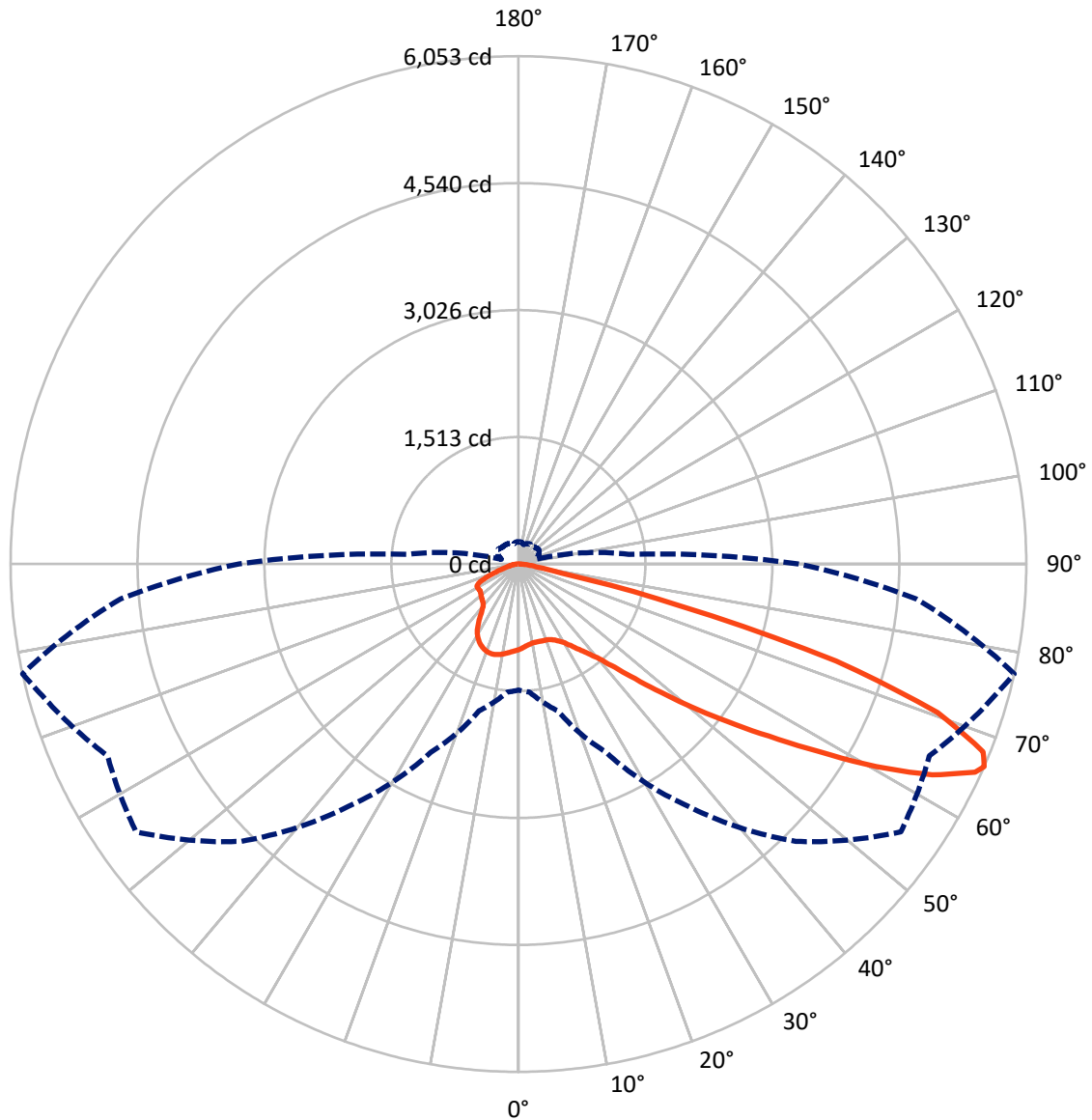
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1221.6	0.0	1221.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5928.8	0.0	5928.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	7150.4	0.0	7150.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	1.3
10°-20°	256.8	3.6
20°-30°	438.3	6.1
30°-40°	701.7	9.8
40°-50°	1084.0	15.2
50°-60°	1537.5	21.5
60°-70°	2056.8	28.8
70°-80°	893.2	12.5
80°-90°	91.1	1.3
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°	7150.4	100.0
0°-180°	7150.4	100.0



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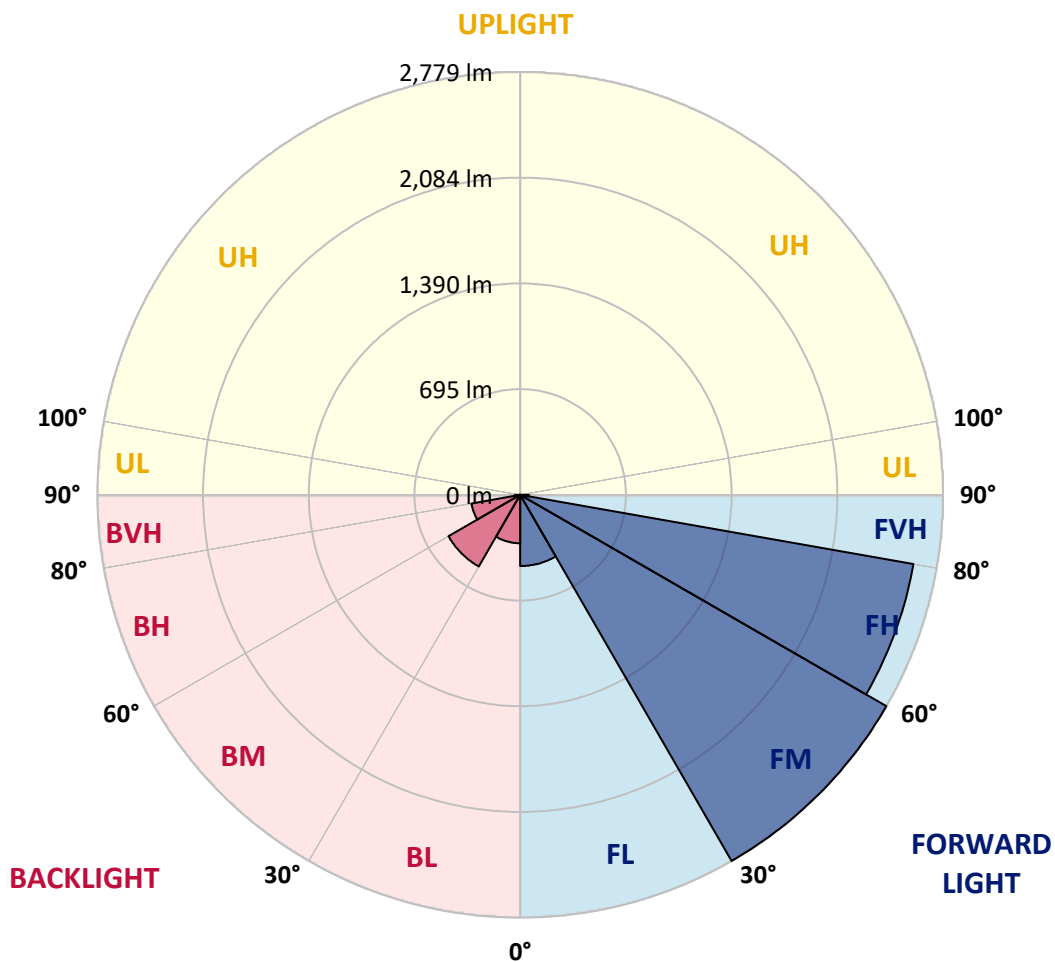
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.0	6.5			
FM	(30°-60°)	2779.0	38.9			
FH	(60°-80°)	2624.6	36.7			G2/5000
FVH	(80°-90°)	57.1	0.8			G1/100
BL	(0°-30°)	318.2	4.4	B1/500		
BM	(30°-60°)	544.2	7.6	B1/1000		
BH	(60°-80°)	325.3	4.5	B1/500		G1/500
BVH	(80°-90°)	34.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	901.4	907.5	912.6	917.3	926.7	942.2	960.1	974.7	995.6	999.7	1010.9
5°	818.7	818.7	822.7	829.8	842.6	865.9	890.3	922.7	968.3	979.1	1008.8
7.5°	778.5	778.8	781.1	787.2	798.3	819.6	846.3	884.5	946.3	964.2	1014.9
10°	793.3	789.9	784.8	781.8	783.5	796.0	821.3	863.9	932.8	955.7	1028.5
12.5°	876.4	870.0	852.4	829.1	806.8	797.7	812.5	854.1	927.1	953.8	1046.4
15°	1012.2	1009.6	976.7	928.4	874.4	829.1	819.0	850.4	927.7	956.2	1067.7
17.5°	1182.5	1178.7	1135.6	1065.3	977.1	888.9	841.6	853.4	930.1	960.1	1088.2
20°	1354.5	1342.9	1296.4	1212.6	1099.4	970.3	879.1	861.2	933.1	964.5	1109.9
22.5°	1482.9	1473.4	1431.5	1350.1	1219.7	1064.6	929.5	874.7	943.0	977.4	1136.5
25°	1595.7	1596.3	1554.8	1476.1	1341.3	1164.6	994.3	910.8	967.9	1003.7	1173.0
27.5°	1735.2	1727.2	1688.3	1610.2	1461.6	1265.6	1072.7	960.6	1005.2	1041.3	1221.0
30°	1902.1	1896.3	1851.4	1763.0	1595.0	1374.0	1162.2	1018.2	1053.1	1090.6	1283.8
32.5°	2098.4	2095.7	2049.1	1935.2	1749.0	1501.8	1267.3	1094.7	1124.7	1163.6	1374.0
35°	2328.8	2329.2	2274.1	2137.3	1917.6	1650.4	1386.5	1193.0	1211.9	1252.4	1481.5
37.5°	2470.7	2487.9	2467.4	2327.8	2108.5	1816.7	1541.3	1323.4	1311.2	1352.1	1596.7
40°	2501.1	2522.1	2587.2	2516.4	2322.1	1999.8	1678.5	1448.7	1433.6	1483.5	1745.1
42.5°	2458.6	2487.6	2625.5	2675.4	2548.8	2225.4	1862.9	1634.9	1615.6	1682.9	1929.5
45°	2433.2	2454.9	2614.4	2758.3	2745.4	2480.6	2097.8	1868.6	1861.6	1949.7	2142.4
47.5°	2389.3	2408.9	2562.3	2777.5	2861.0	2714.3	2379.9	2154.5	2168.3	2283.9	2382.6
50°	2412.9	2421.0	2504.2	2728.5	2894.4	2885.6	2695.1	2485.6	2532.9	2677.2	2654.6
52.5°	2409.6	2430.5	2497.4	2648.1	2898.8	2991.4	3005.5	2854.9	2954.6	3120.1	2956.2
55°	1948.1	1986.6	2418.1	2627.9	2914.3	3095.0	3281.9	3244.1	3429.9	3622.8	3296.8
57.5°	1860.2	1884.6	2123.7	2670.4	2996.7	3293.1	3589.3	3672.5	3983.3	4207.3	3711.7
60°	1842.9	1873.0	2120.7	2722.5	3164.0	3615.7	4045.2	4191.1	4656.7	4902.0	4192.8
62.5°	1789.2	1821.7	2100.7	2715.6	3401.5	4062.0	4628.6	4742.5	5295.2	5533.8	4595.2
65°	1619.0	1649.4	1938.3	2606.6	3561.7	4538.4	5319.1	5247.9	5799.3	5978.6	4795.8
66°	1502.4	1532.2	1810.2	2478.2	3524.5	4673.6	5563.8	5404.4	5912.1	6052.7	4756.6
67.5°	1289.2	1312.5	1561.5	2190.6	3326.8	4711.4	5769.5	5521.9	5923.9	5973.6	4532.7
70°	814.6	821.3	1014.9	1512.2	2518.4	4086.0	5456.3	5230.0	5435.4	5300.9	3799.9
72.5°	353.4	351.1	487.2	769.3	1425.8	2741.7	4413.7	4315.4	4263.8	3957.0	2660.0
75°	196.6	199.4	253.1	357.1	579.4	1346.7	2887.3	2763.0	2332.8	1990.7	1206.2
77.5°	157.7	161.5	209.8	253.4	260.1	469.6	1351.1	1099.4	661.8	531.1	335.1
80°	124.7	131.4	183.1	197.3	175.3	193.5	436.5	349.0	261.9	240.2	173.7
82.5°	98.6	103.4	157.1	149.4	122.7	130.4	209.1	203.8	170.3	155.1	100.4
85°	71.0	79.7	129.1	112.5	80.4	87.9	138.8	133.1	97.6	79.7	44.3
87.5°	29.1	37.8	91.2	74.7	44.9	40.9	69.3	65.2	46.2	33.8	22.0
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°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1017.9	1026.0	1036.6	1043.0	1046.4	1048.7	1052.4	1052.1	1053.1	1053.4	1054.8
5°	1024.7	1038.2	1053.4	1057.5	1057.5	1053.7	1050.1	1043.9	1041.6	1041.0	1041.6
7.5°	1042.3	1057.1	1070.3	1065.6	1055.5	1040.5	1021.3	1004.4	995.3	992.3	991.6
10°	1064.6	1082.5	1087.9	1070.0	1040.2	1004.4	966.3	938.6	922.7	918.3	917.0
12.5°	1091.6	1108.5	1101.1	1063.3	1008.1	950.4	897.6	853.4	820.3	809.9	809.2
15°	1121.4	1134.6	1108.5	1042.3	960.1	875.0	781.1	704.8	663.6	650.4	649.4
17.5°	1149.1	1155.8	1104.1	1005.8	889.6	751.8	627.1	568.2	554.1	557.5	558.1
20°	1172.7	1172.7	1089.2	953.4	778.5	589.2	510.5	509.5	519.7	529.8	531.8
22.5°	1198.7	1183.1	1063.3	879.4	620.9	482.1	470.7	480.1	491.5	502.7	504.4
25°	1230.8	1191.6	1027.0	767.3	488.2	437.8	442.2	450.0	455.7	462.9	463.9
27.5°	1266.6	1202.4	979.5	612.8	423.7	410.2	413.6	416.2	415.5	418.3	418.9
30°	1309.5	1215.0	914.2	479.0	397.0	386.5	380.4	378.1	378.1	382.5	384.1
32.5°	1367.0	1233.5	820.6	410.5	384.1	369.6	350.1	341.3	344.6	359.5	362.8
35°	1430.2	1253.4	694.0	387.2	381.5	361.8	331.4	315.2	315.6	329.4	333.8
37.5°	1499.0	1278.8	555.1	382.8	387.5	362.2	321.6	299.3	290.2	290.2	292.0
40°	1587.2	1304.8	449.4	385.9	400.4	366.2	316.6	286.8	261.2	261.9	263.2
42.5°	1702.1	1327.1	392.6	392.2	415.9	371.6	316.2	270.3	248.0	263.2	277.0
45°	1829.9	1338.2	367.5	398.0	428.4	375.0	310.9	267.6	249.7	294.9	321.3
47.5°	1976.8	1331.8	353.7	400.0	431.5	375.0	304.7	274.0	261.5	341.6	372.4
50°	2138.0	1313.3	340.2	396.0	430.5	374.3	310.5	280.4	265.9	349.6	370.9
52.5°	2327.5	1297.7	326.0	387.2	423.3	370.6	317.2	277.7	252.1	317.9	332.8
55°	2543.7	1302.1	310.2	374.7	412.1	363.6	314.9	266.9	237.5	280.1	289.2
57.5°	2820.1	1354.5	291.2	358.9	397.0	351.7	306.5	261.9	233.1	254.1	259.5
60°	3128.5	1445.6	267.6	342.9	378.1	332.8	300.0	264.2	235.2	252.1	254.7
62.5°	3354.9	1498.7	247.3	319.6	352.4	311.8	292.0	267.2	240.6	259.1	258.5
65°	3416.3	1411.6	222.0	285.5	317.6	289.9	281.7	270.6	243.0	264.8	261.9
66°	3330.2	1317.7	210.8	269.6	300.0	279.1	276.7	270.3	241.9	265.6	260.4
67.5°	3121.1	1125.0	191.6	246.3	272.0	262.9	268.6	267.2	239.2	264.8	257.8
70°	2545.4	767.6	163.9	205.1	226.4	231.4	253.1	256.5	230.4	253.1	237.5
72.5°	1778.5	467.6	145.0	159.2	183.1	197.3	231.8	241.5	218.6	221.0	206.1
75°	859.5	248.4	131.4	123.4	142.2	164.9	206.1	221.3	200.0	184.8	179.4
77.5°	267.9	151.7	111.5	99.3	111.5	133.1	172.3	194.0	178.1	154.8	152.7
80°	143.9	111.5	85.8	79.7	88.2	104.4	135.4	161.8	153.0	138.8	124.0
82.5°	94.9	72.3	63.5	61.8	67.2	79.7	100.7	134.1	134.1	119.0	86.5
85°	49.0	44.3	43.6	43.6	47.0	53.1	68.5	103.4	110.2	62.8	52.1
87.5°	24.3	25.4	23.6	24.7	26.4	26.0	32.7	52.1	62.2	38.2	31.7
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)