

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: P302829

Luminaire Tested: **GLNA-AF-02-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-02-LED-E1-T4W-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9418.2 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 85  
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

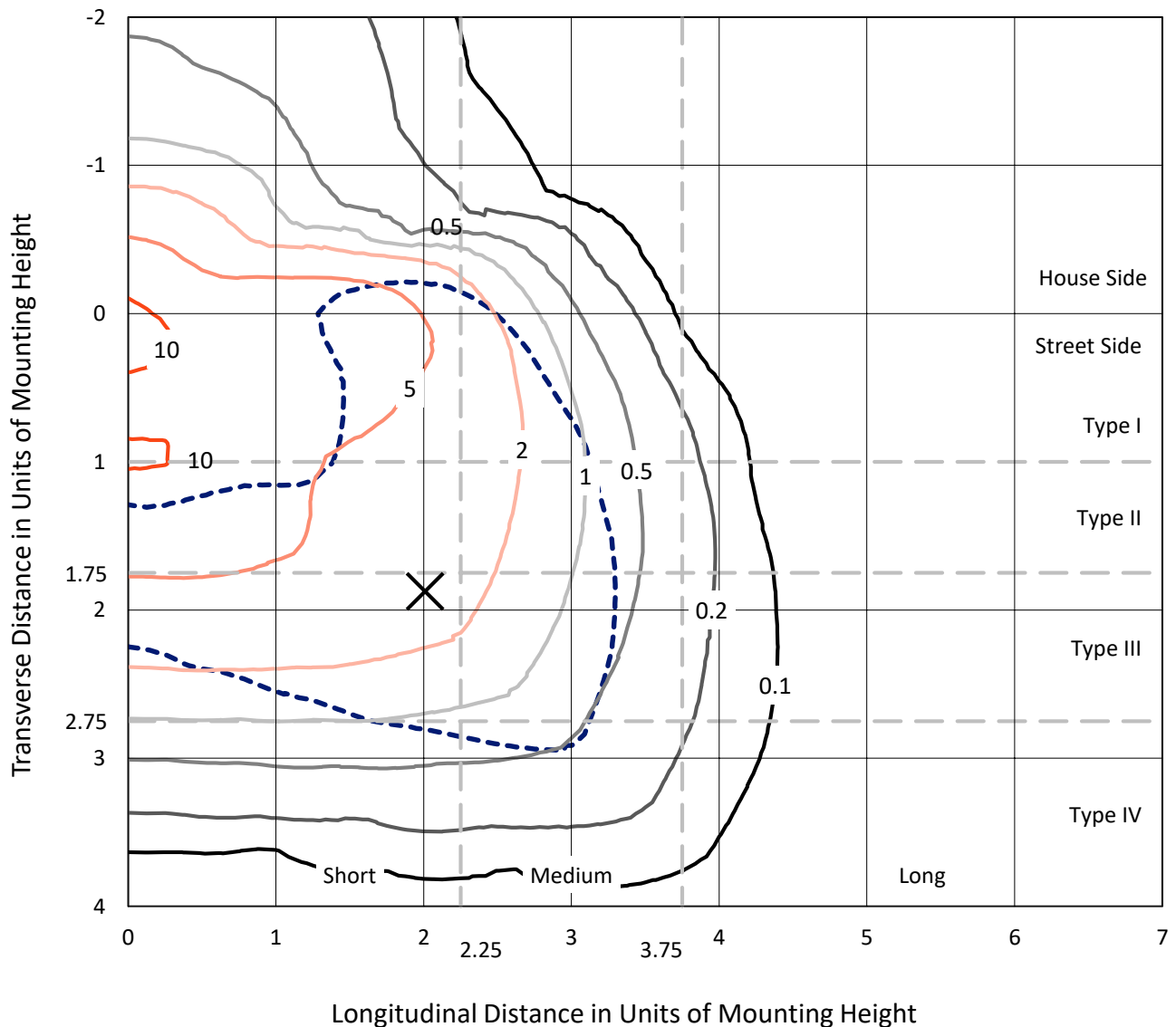


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### Iso-Footcandle Lines of Horizontal Illumination

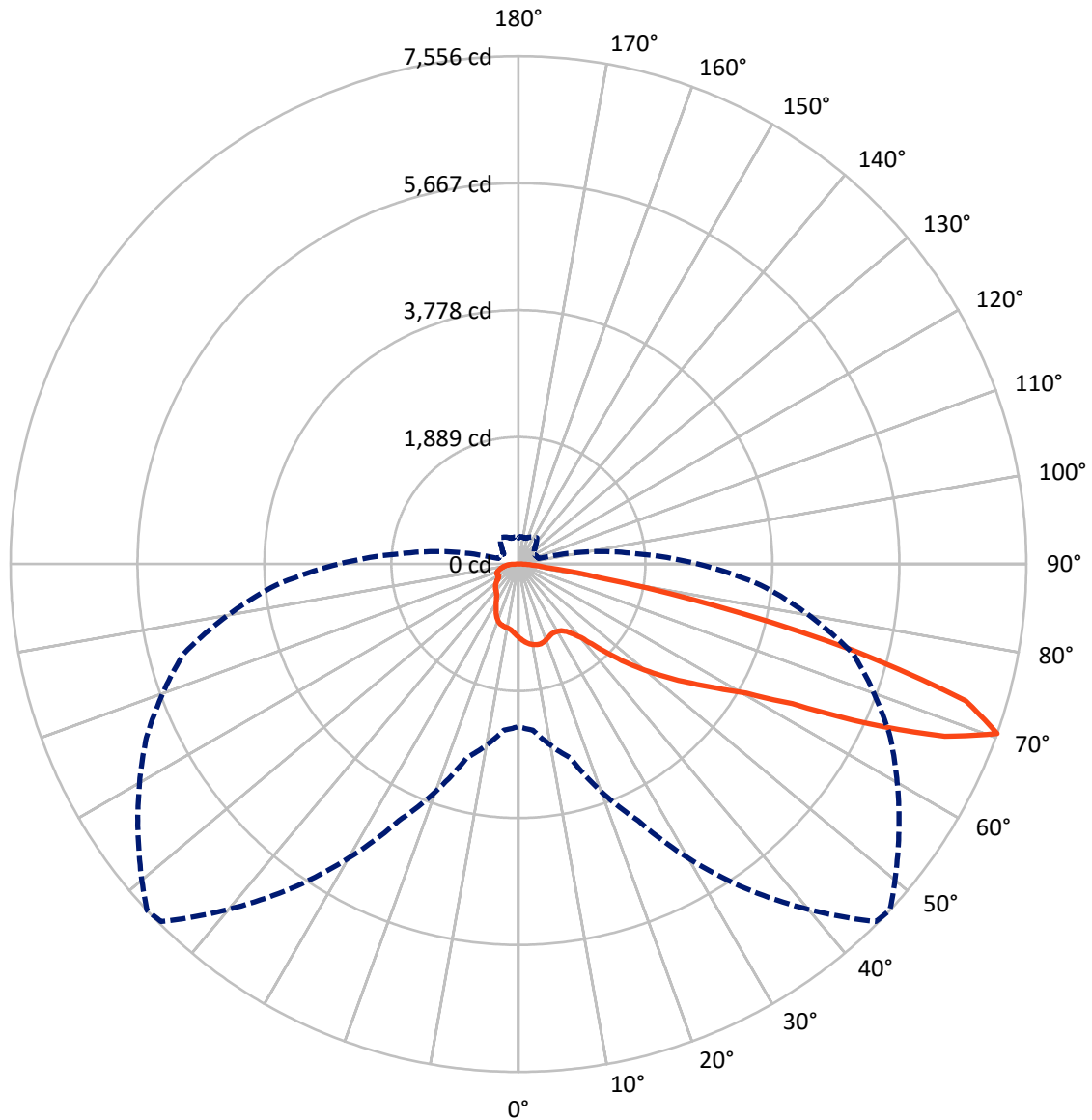
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1964.8	0.0	1964.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7453.3	0.0	7453.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9418.2	0.0	9418.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	1.1
10°-20°	307.2	3.3
20°-30°	453.6	4.8
30°-40°	659.3	7.0
40°-50°	1186.6	12.6
50°-60°	2055.7	21.8
60°-70°	2934.0	31.2
70°-80°	1506.2	16.0
80°-90°	210.9	2.2
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°	9418.2	100.0
0°-180°	9418.2	100.0



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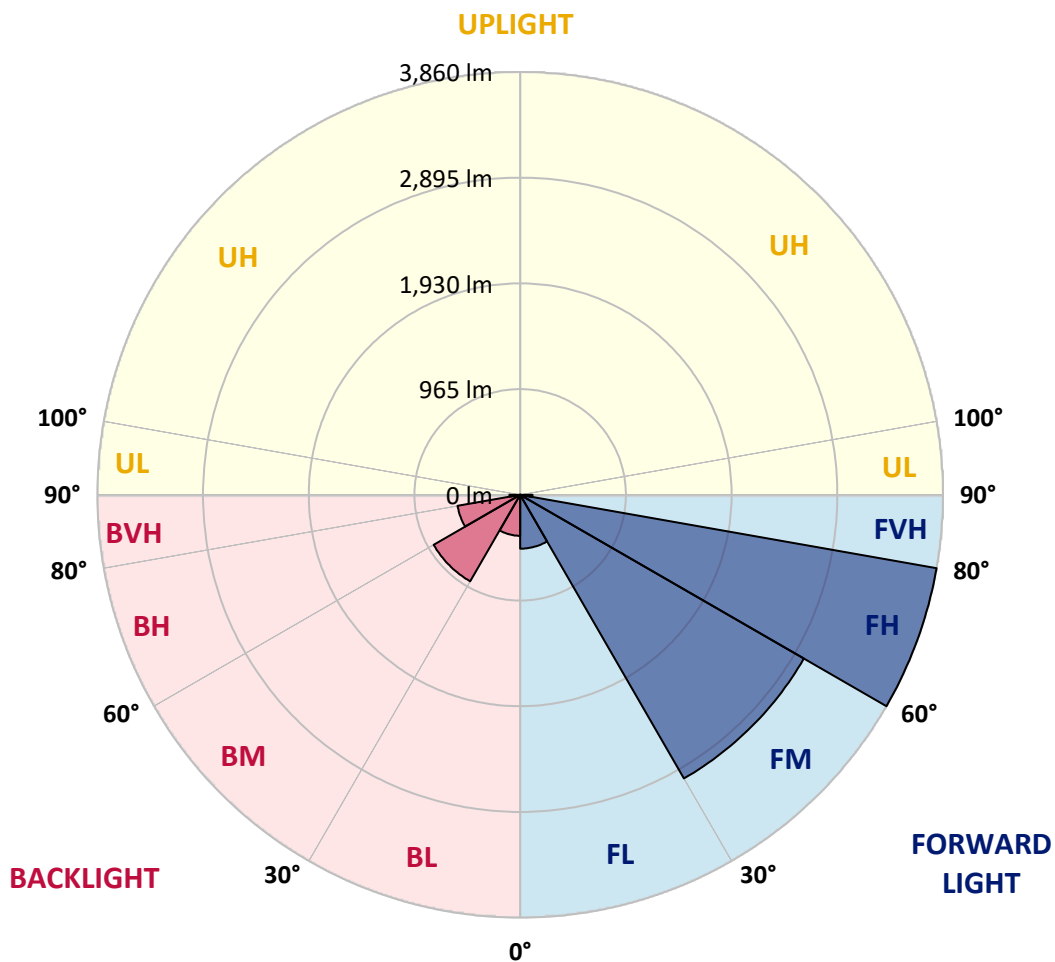
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.4	5.2			
FM	(30°-60°)	2989.6	31.7			
FH	(60°-80°)	3859.8	41.0			G2/5000
FVH	(80°-90°)	112.5	1.2			G2/225
BL	(0°-30°)	374.1	4.0	B1/500		
BM	(30°-60°)	912.0	9.7	B1/1000		
BH	(60°-80°)	580.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	98.3	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8
2.5°	1157.0	1154.7	1153.8	1152.0	1149.7	1138.1	1135.8	1127.6	1116.2	1104.2	1091.9
5°	1233.1	1232.6	1227.5	1218.3	1203.7	1178.5	1172.5	1152.4	1125.3	1099.2	1073.1
7.5°	1299.9	1295.8	1286.2	1267.8	1242.2	1207.8	1199.6	1171.6	1134.5	1098.7	1063.4
10°	1348.9	1346.6	1325.6	1300.3	1266.9	1228.8	1219.2	1188.0	1147.3	1101.9	1057.9
12.5°	1376.9	1372.3	1348.0	1317.8	1278.0	1240.8	1231.1	1199.6	1153.8	1101.9	1050.2
15°	1375.1	1371.9	1347.5	1314.5	1274.3	1241.8	1233.1	1201.4	1152.4	1097.3	1040.1
17.5°	1338.4	1339.8	1319.2	1286.6	1253.6	1228.8	1221.1	1191.8	1143.1	1088.2	1028.3
20°	1274.3	1280.7	1266.9	1238.1	1219.7	1202.8	1197.8	1173.0	1129.0	1075.0	1015.3
22.5°	1210.1	1216.0	1210.6	1186.2	1183.5	1173.4	1170.7	1152.9	1116.7	1066.8	1007.6
25°	1162.9	1168.4	1167.5	1146.3	1154.7	1154.3	1152.0	1143.1	1113.9	1066.8	1008.9
27.5°	1150.1	1152.0	1150.1	1130.8	1142.2	1151.5	1149.7	1148.2	1122.1	1080.0	1026.4
30°	1194.1	1191.4	1177.1	1138.1	1148.8	1161.6	1159.7	1160.6	1146.8	1114.8	1065.4
32.5°	1369.6	1357.1	1312.2	1202.8	1174.8	1181.6	1182.6	1197.8	1200.1	1168.4	1125.8
35°	1632.1	1618.4	1560.1	1376.0	1255.9	1232.2	1232.2	1255.0	1268.7	1245.4	1219.7
37.5°	1910.3	1895.0	1864.0	1616.1	1426.3	1319.7	1317.4	1333.4	1353.0	1358.6	1365.0
40°	2226.3	2210.4	2219.0	1885.5	1664.2	1471.2	1438.7	1427.3	1480.4	1515.7	1567.1
42.5°	2572.4	2564.9	2568.1	2185.6	1934.9	1698.1	1651.9	1592.7	1656.9	1719.6	1827.3
45°	2892.6	2899.0	2895.8	2506.8	2236.5	1974.8	1925.8	1811.2	1874.0	1981.6	2157.2
47.5°	3173.0	3146.4	3187.6	2857.7	2574.2	2284.6	2224.1	2070.7	2134.3	2267.1	2564.0
50°	3513.4	3509.8	3449.4	3326.1	2982.3	2595.7	2516.4	2338.6	2437.6	2622.3	3076.8
52.5°	3871.4	3804.9	3749.5	3690.3	3415.4	2914.6	2817.4	2605.7	2794.1	3026.3	3701.8
55°	3944.6	3914.9	3983.5	4083.0	3832.9	3245.9	3132.7	2940.6	3195.5	3488.3	4422.5
57.5°	4101.3	4100.8	4243.0	4420.3	4262.6	3597.3	3483.2	3345.3	3646.7	4017.4	5187.7
60°	4207.2	4236.9	4500.9	4845.0	4684.6	4003.3	3898.3	3812.2	4160.0	4609.0	5900.6
62.5°	4262.6	4302.9	4663.1	5017.2	5281.1	4679.1	4574.3	4450.1	4839.0	5257.8	6317.6
65°	4032.2	4111.3	4637.9	5166.2	5803.5	5774.6	5727.4	5509.4	5688.0	5770.5	6166.9
67.5°	3394.3	3475.4	4088.5	5027.3	6176.5	6831.3	6841.4	6468.8	6210.5	5814.5	5184.9
70°	2418.4	2482.0	2989.3	4215.0	5892.4	7521.8	7556.1	6910.9	6106.4	5156.5	3622.5
72.5°	1148.2	1187.1	1667.4	2743.3	4675.9	6891.7	6958.2	6346.5	5192.2	3817.6	1976.2
75°	422.0	433.9	563.5	1167.0	2712.1	5082.4	5160.7	4549.5	3441.9	1900.7	752.8
77.5°	252.9	260.7	316.2	492.6	1066.8	2905.0	3020.8	2474.2	1504.3	707.5	370.2
80°	176.8	182.3	226.7	306.5	504.0	1107.1	1210.1	1009.8	599.3	447.7	269.4
82.5°	119.6	122.3	159.5	207.1	334.9	395.4	426.5	449.1	404.2	333.1	170.9
85°	78.4	81.1	108.2	136.5	213.0	204.4	208.9	264.3	295.1	226.3	94.8
87.5°	44.9	46.7	65.1	72.9	104.5	86.6	87.5	139.2	188.9	152.6	57.7
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°	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8	1092.8
2.5°	1088.7	1082.7	1069.5	1061.1	1053.4	1051.5	1048.3	1047.9	1047.4	1047.4	1046.1
5°	1064.3	1054.3	1033.7	1022.2	1012.6	1011.7	1011.2	1013.5	1014.4	1015.3	1013.9
7.5°	1048.8	1035.1	1009.4	992.9	981.5	978.6	983.4	993.9	1000.7	1003.4	1002.1
10°	1039.2	1022.2	992.5	974.5	964.9	963.6	969.5	982.0	996.1	1001.6	1001.2
12.5°	1028.3	1008.9	977.3	958.6	953.1	955.8	963.6	975.0	989.8	998.4	998.9
15°	1017.1	994.8	962.2	945.8	943.5	947.1	954.4	963.1	974.5	983.4	984.3
17.5°	1003.9	980.5	948.1	931.0	929.2	931.0	931.5	936.0	943.5	951.7	954.0
20°	989.8	965.9	931.9	915.0	906.8	899.5	891.1	892.1	894.3	902.7	904.5
22.5°	979.6	955.8	919.6	896.2	874.3	852.2	835.8	833.5	834.4	841.2	843.5
25°	980.5	955.4	916.4	876.1	828.0	792.7	770.6	767.0	766.5	771.5	774.9
27.5°	998.4	973.2	928.3	855.4	777.6	725.3	702.0	699.2	695.6	697.0	700.6
30°	1038.3	1014.9	957.2	834.4	723.0	659.4	635.0	632.3	627.3	625.0	627.7
32.5°	1103.3	1084.1	999.3	814.1	668.5	602.9	578.3	572.3	569.1	566.4	568.7
35°	1211.5	1203.3	1055.6	792.2	620.4	559.4	537.0	527.9	523.3	528.4	532.0
37.5°	1381.0	1385.6	1129.4	757.8	583.3	530.6	511.8	501.3	494.4	498.5	502.6
40°	1621.1	1624.3	1211.0	709.3	551.2	513.6	493.5	483.9	474.2	466.9	466.4
42.5°	1936.3	1903.9	1291.2	656.6	514.1	503.1	480.7	468.7	454.1	433.9	429.7
45°	2310.2	2196.2	1352.1	596.1	472.4	490.3	466.4	450.0	427.0	405.1	402.8
47.5°	2741.0	2510.0	1381.9	533.4	433.4	471.4	449.1	422.9	394.0	383.0	381.7
50°	3266.9	2882.5	1396.1	472.4	399.6	446.8	423.8	393.1	368.9	366.6	365.2
52.5°	3865.9	3330.7	1400.8	422.4	371.6	414.7	403.3	373.4	354.1	356.1	356.1
55°	4492.7	3793.4	1338.4	386.2	345.9	381.7	389.4	365.7	349.5	357.0	359.7
57.5°	5068.1	4203.6	1142.2	358.4	321.7	356.5	384.4	373.0	362.0	391.7	393.5
60°	5509.8	4445.8	853.1	333.1	303.7	347.7	397.8	401.0	403.7	474.6	484.4
62.5°	5602.4	4365.3	586.5	313.5	295.5	355.2	422.0	422.4	419.2	468.7	474.6
65°	5177.6	3855.2	426.5	302.4	288.7	368.4	442.7	432.9	411.9	449.5	438.4
67.5°	4111.8	2904.6	355.2	294.2	278.6	367.5	464.6	442.7	407.8	440.4	422.4
70°	2669.0	1756.3	316.2	287.3	266.6	350.0	477.4	441.8	395.8	409.7	388.5
72.5°	1302.2	785.4	290.0	277.3	254.3	325.8	476.9	433.4	383.5	382.6	371.2
75°	509.5	359.7	266.2	262.0	233.3	298.3	464.1	421.5	368.9	354.1	350.0
77.5°	298.3	256.6	236.0	239.7	208.0	270.7	445.4	401.0	348.6	331.3	326.7
80°	217.2	192.0	201.2	207.1	177.7	243.3	420.2	375.7	326.3	334.9	328.5
82.5°	139.2	123.7	163.1	169.1	148.1	215.3	392.6	349.1	294.6	267.5	261.1
85°	71.1	78.4	121.4	128.7	114.1	176.8	359.3	313.9	258.9	222.6	226.3
87.5°	39.9	53.6	77.5	86.6	80.7	136.0	291.4	258.9	211.2	171.8	151.3
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)