

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: P200374

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-T4W-7050-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9966 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

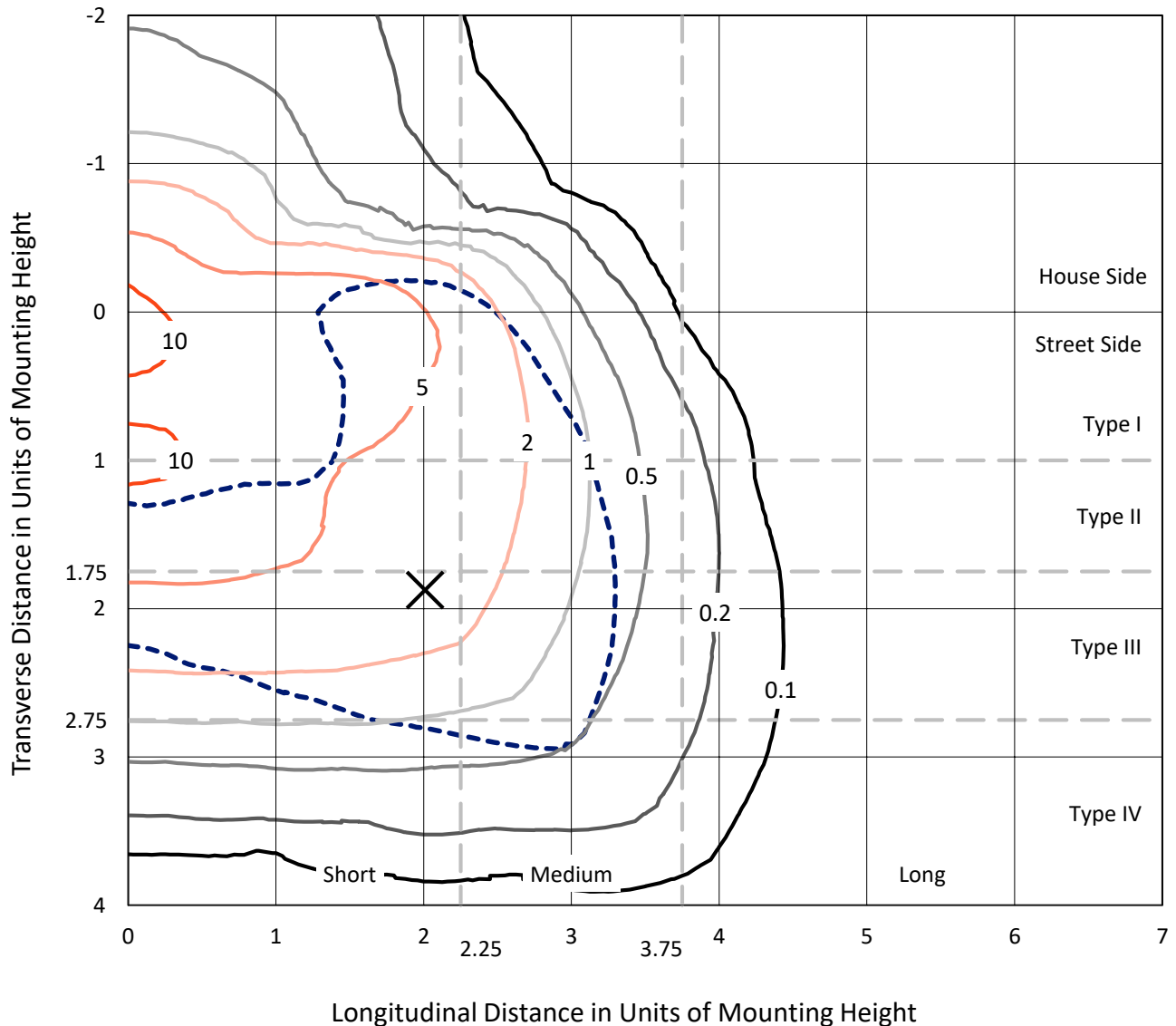
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

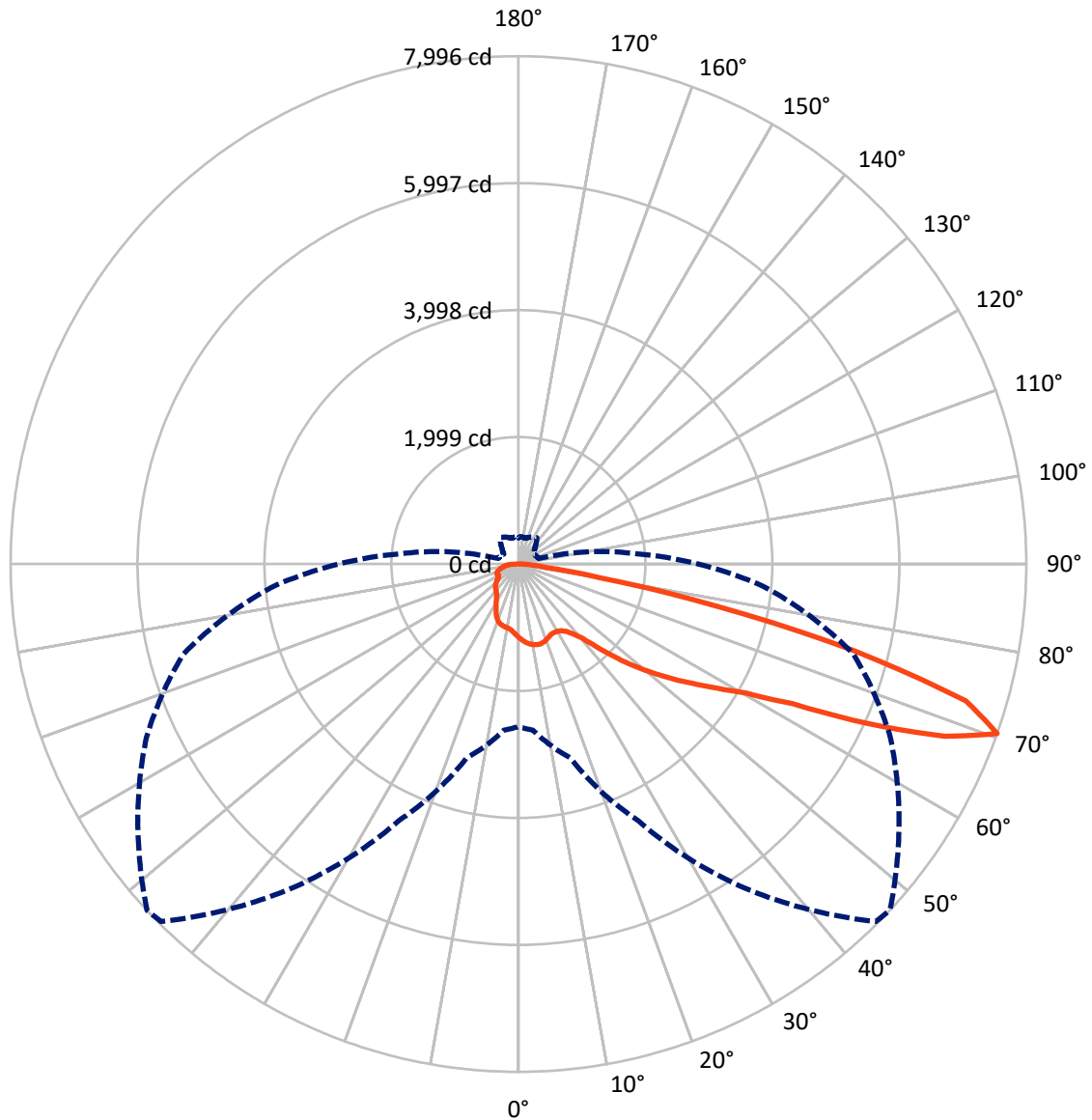
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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	2079.1	0.0	2079.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7886.9	0.0	7886.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9966.0	0.0	9966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	1.1
10°-20°	325.1	3.3
20°-30°	480.0	4.8
30°-40°	697.7	7.0
40°-50°	1255.6	12.6
50°-60°	2175.2	21.8
60°-70°	3104.7	31.2
70°-80°	1593.8	16.0
80°-90°	223.1	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°	9966.0	100.0
0°-180°	9966.0	100.0

**Coefficient of Utilization**



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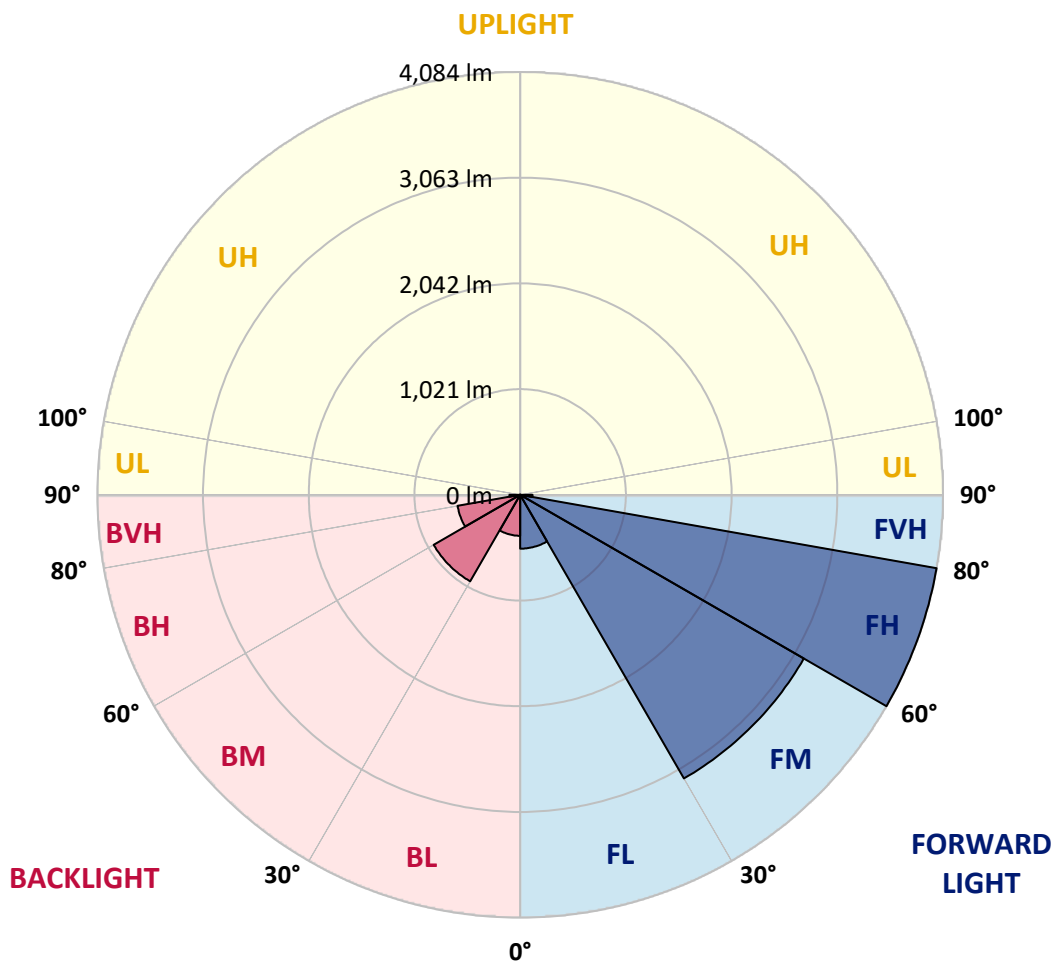
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.0	5.2			
FM	(30°-60°)	3163.5	31.7			
FH	(60°-80°)	4084.3	41.0			G2/5000
FVH	(80°-90°)	119.1	1.2			G2/225
BL	(0°-30°)	395.9	4.0	B1/500		
BM	(30°-60°)	965.1	9.7	B1/1000		
BH	(60°-80°)	614.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	104.1	1.0			G2/225
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°	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1224.2	1221.8	1220.9	1218.9	1216.5	1204.4	1201.9	1193.2	1181.1	1168.5	1155.4
5°	1304.7	1304.2	1298.9	1289.2	1273.7	1247.0	1240.7	1219.4	1190.8	1163.2	1135.5
7.5°	1375.5	1371.2	1361.0	1341.6	1314.4	1278.1	1269.3	1239.8	1200.5	1162.7	1125.3
10°	1427.4	1425.0	1402.7	1376.0	1340.6	1300.4	1290.2	1257.2	1214.1	1166.1	1119.5
12.5°	1457.0	1452.1	1426.4	1394.4	1352.2	1313.0	1302.8	1269.3	1220.9	1166.1	1111.3
15°	1455.0	1451.6	1425.9	1391.0	1348.4	1313.9	1304.7	1271.3	1219.4	1161.2	1100.6
17.5°	1416.2	1417.7	1395.9	1361.5	1326.5	1300.4	1292.1	1261.1	1209.7	1151.5	1088.0
20°	1348.4	1355.2	1340.6	1310.1	1290.7	1272.7	1267.4	1241.2	1194.7	1137.5	1074.4
22.5°	1280.5	1286.8	1281.0	1255.3	1252.4	1241.7	1238.8	1219.9	1181.6	1128.7	1066.2
25°	1230.5	1236.4	1235.4	1213.1	1221.8	1221.3	1218.9	1209.7	1178.7	1128.7	1067.6
27.5°	1217.0	1218.9	1217.0	1196.6	1208.7	1218.4	1216.5	1215.0	1187.4	1142.8	1086.1
30°	1263.5	1260.6	1245.6	1204.4	1215.5	1229.1	1227.2	1228.1	1213.6	1179.6	1127.3
32.5°	1449.2	1436.1	1388.6	1272.7	1243.2	1250.4	1251.4	1267.4	1269.8	1236.4	1191.3
35°	1727.0	1712.5	1650.9	1456.0	1329.0	1303.8	1303.8	1328.0	1342.5	1317.8	1290.7
37.5°	2021.3	2005.3	1972.4	1710.1	1509.3	1396.4	1393.9	1410.9	1431.8	1437.6	1444.4
40°	2355.9	2338.9	2348.1	1995.2	1761.0	1556.9	1522.4	1510.3	1566.5	1603.9	1658.2
42.5°	2721.9	2714.2	2717.6	2312.7	2047.5	1796.9	1747.9	1685.3	1753.2	1819.6	1933.6
45°	3060.9	3067.6	3064.2	2652.6	2366.6	2089.7	2037.8	1916.6	1983.0	2097.0	2282.7
47.5°	3357.6	3329.5	3373.1	3024.0	2723.9	2417.5	2353.5	2191.0	2258.4	2399.0	2713.2
50°	3717.8	3713.9	3649.9	3519.5	3155.9	2746.7	2662.8	2474.7	2579.4	2774.8	3255.8
52.5°	4096.5	4026.2	3967.5	3905.0	3614.1	3084.1	2981.3	2757.3	2956.6	3202.4	3917.1
55°	4174.1	4142.6	4215.3	4320.5	4055.8	3434.7	3314.9	3111.8	3381.3	3691.2	4679.8
57.5°	4339.9	4339.4	4489.7	4677.3	4510.6	3806.6	3685.8	3539.9	3858.9	4251.2	5489.5
60°	4451.9	4483.4	4762.7	5126.8	4957.1	4236.1	4125.1	4033.9	4401.9	4877.1	6243.9
62.5°	4510.6	4553.2	4934.3	5309.1	5588.4	4951.3	4840.3	4708.9	5120.5	5563.6	6685.1
65°	4266.7	4350.6	4907.6	5466.7	6141.1	6110.6	6060.6	5829.8	6018.9	6106.2	6525.6
67.5°	3591.8	3677.6	4326.3	5319.8	6535.8	7228.6	7239.3	6845.1	6571.7	6152.7	5486.6
70°	2559.0	2626.4	3163.2	4460.1	6235.2	7959.3	7995.7	7313.0	6461.6	5456.5	3833.2
72.5°	1215.0	1256.2	1764.4	2902.8	4947.9	7292.6	7362.9	6715.7	5494.3	4039.8	2091.2
75°	446.5	459.2	596.4	1234.9	2869.8	5378.0	5460.9	4814.1	3642.2	2011.2	796.6
77.5°	267.6	275.9	334.5	521.2	1128.7	3073.9	3196.6	2618.2	1591.8	748.6	391.8
80°	187.2	193.0	240.0	324.4	533.3	1171.4	1280.5	1068.6	634.2	473.7	285.1
82.5°	126.5	129.5	168.7	219.2	354.4	418.4	451.4	475.2	427.6	352.5	180.8
85°	82.9	85.8	114.4	144.5	225.5	216.2	221.1	279.8	312.2	239.5	100.4
87.5°	47.5	49.5	68.8	77.1	110.5	91.6	92.6	147.4	199.8	161.5	61.1
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°	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.0	1145.7	1131.6	1122.9	1114.7	1112.7	1109.3	1108.9	1108.4	1108.4	1106.9
5°	1126.3	1115.6	1093.8	1081.7	1071.5	1070.5	1070.1	1072.5	1073.5	1074.4	1073.0
7.5°	1109.8	1095.3	1068.1	1050.7	1038.5	1035.6	1040.5	1051.6	1058.9	1061.8	1060.4
10°	1099.6	1081.7	1050.2	1031.3	1021.1	1019.6	1025.9	1039.0	1054.1	1059.9	1059.4
12.5°	1088.0	1067.6	1034.2	1014.3	1008.5	1011.4	1019.6	1031.8	1047.3	1056.5	1057.0
15°	1076.4	1052.6	1018.2	1000.7	998.3	1002.2	1009.9	1019.2	1031.3	1040.5	1041.5
17.5°	1062.3	1037.6	1003.2	985.2	983.3	985.2	985.7	990.5	998.3	1007.0	1009.5
20°	1047.3	1022.1	986.2	968.2	959.5	951.8	943.0	944.0	946.4	955.2	957.1
22.5°	1036.6	1011.4	973.1	948.4	925.1	901.8	884.4	881.9	882.9	890.2	892.6
25°	1037.6	1010.9	969.7	927.0	876.1	838.8	815.5	811.6	811.2	816.5	819.9
27.5°	1056.5	1029.8	982.3	905.2	822.8	767.5	742.8	739.9	736.0	737.5	741.3
30°	1098.7	1073.9	1012.9	882.9	765.1	697.7	672.0	669.1	663.8	661.3	664.2
32.5°	1167.5	1147.2	1057.5	861.6	707.4	638.1	611.9	605.6	602.2	599.3	601.7
35°	1281.9	1273.2	1117.1	838.3	656.5	592.0	568.2	558.5	553.7	559.0	562.9
37.5°	1461.3	1466.2	1195.2	801.9	617.2	561.5	541.6	530.4	523.2	527.5	531.9
40°	1715.4	1718.8	1281.5	750.5	583.3	543.5	522.2	512.0	501.8	494.1	493.6
42.5°	2049.0	2014.6	1366.3	694.8	544.0	532.4	508.6	496.0	480.5	459.2	454.8
45°	2444.6	2323.9	1430.8	630.8	499.9	518.8	493.6	476.1	451.9	428.6	426.2
47.5°	2900.4	2656.0	1462.3	564.4	458.7	498.9	475.2	447.5	417.0	405.3	403.9
50°	3457.0	3050.2	1477.3	499.9	422.8	472.7	448.5	416.0	390.3	387.9	386.4
52.5°	4090.7	3524.4	1482.2	447.0	393.2	438.8	426.7	395.2	374.8	376.7	376.7
55°	4754.0	4014.1	1416.2	408.7	366.1	403.9	412.1	386.9	369.9	377.7	380.6
57.5°	5362.9	4448.0	1208.7	379.2	340.4	377.2	406.8	394.7	383.0	414.5	416.5
60°	5830.3	4704.5	902.8	352.5	321.5	368.0	420.8	424.2	427.2	502.3	512.5
62.5°	5928.3	4619.2	620.6	331.6	312.7	375.8	446.5	447.0	443.6	496.0	502.3
65°	5478.8	4079.5	451.4	320.0	305.5	389.8	468.4	458.2	435.9	475.6	464.0
67.5°	4351.0	3073.5	375.8	311.3	294.8	388.8	491.6	468.4	431.5	465.9	447.0
70°	2824.2	1858.4	334.5	304.0	282.2	370.4	505.2	467.4	418.9	433.5	411.2
72.5°	1377.9	831.0	306.9	293.3	269.1	344.7	504.7	458.7	405.8	404.8	392.7
75°	539.2	380.6	281.7	277.3	246.8	315.6	491.2	446.1	390.3	374.8	370.4
77.5°	315.6	271.5	249.7	253.6	220.1	286.5	471.3	424.2	369.0	350.5	345.7
80°	229.8	203.2	212.8	219.2	188.1	257.5	444.6	397.6	345.2	354.4	347.6
82.5°	147.4	130.9	172.6	178.9	156.6	227.9	415.5	369.5	311.8	283.2	276.4
85°	75.2	82.9	128.5	136.2	120.7	187.2	380.1	332.1	273.9	235.6	239.5
87.5°	42.2	56.7	81.9	91.6	85.3	144.0	308.4	273.9	223.5	181.8	160.0
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)