

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: P270237

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270237
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-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10717.8 lumens
Efficiency: N/A
Efficacy: 94.8 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): 113
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

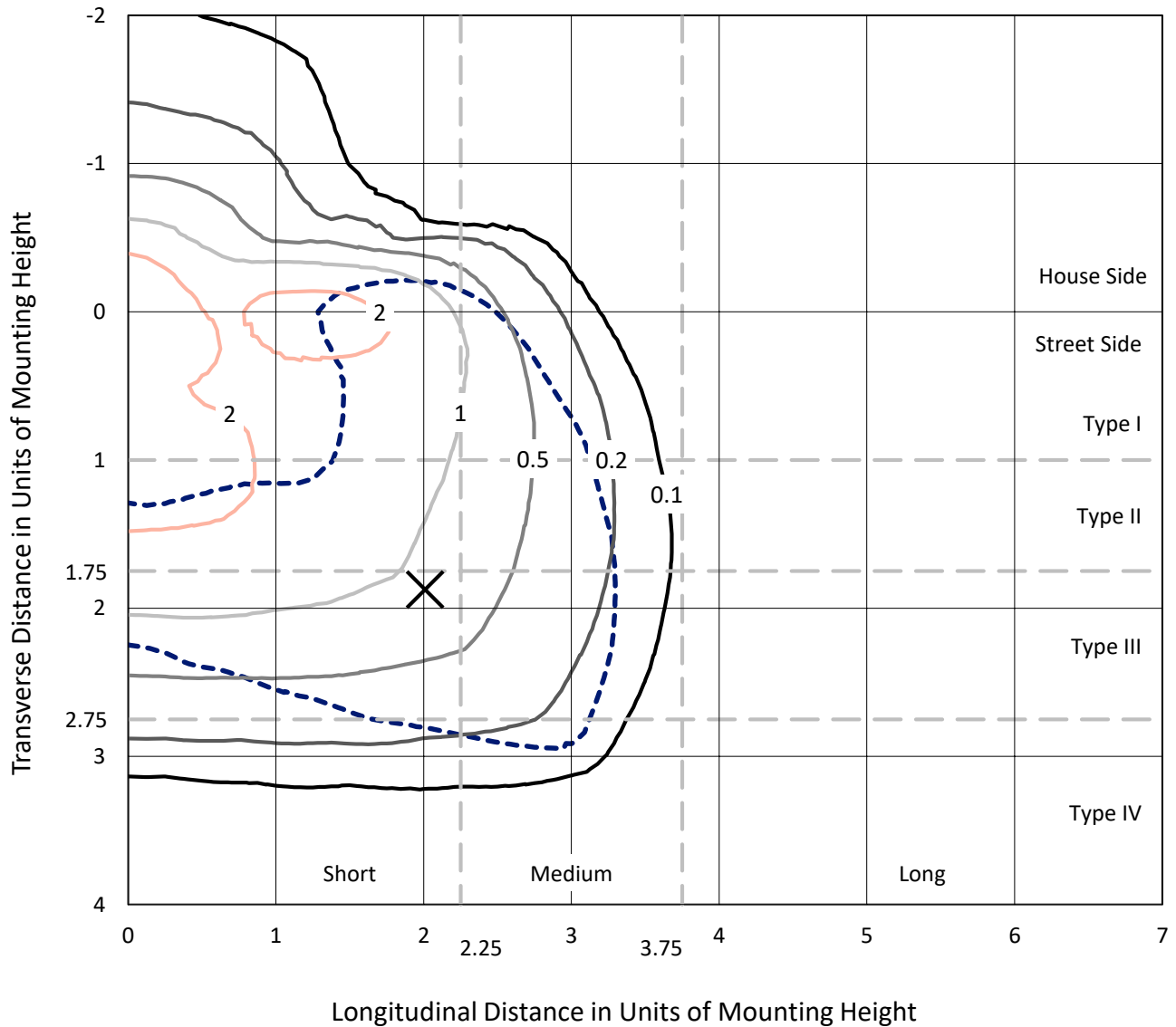


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

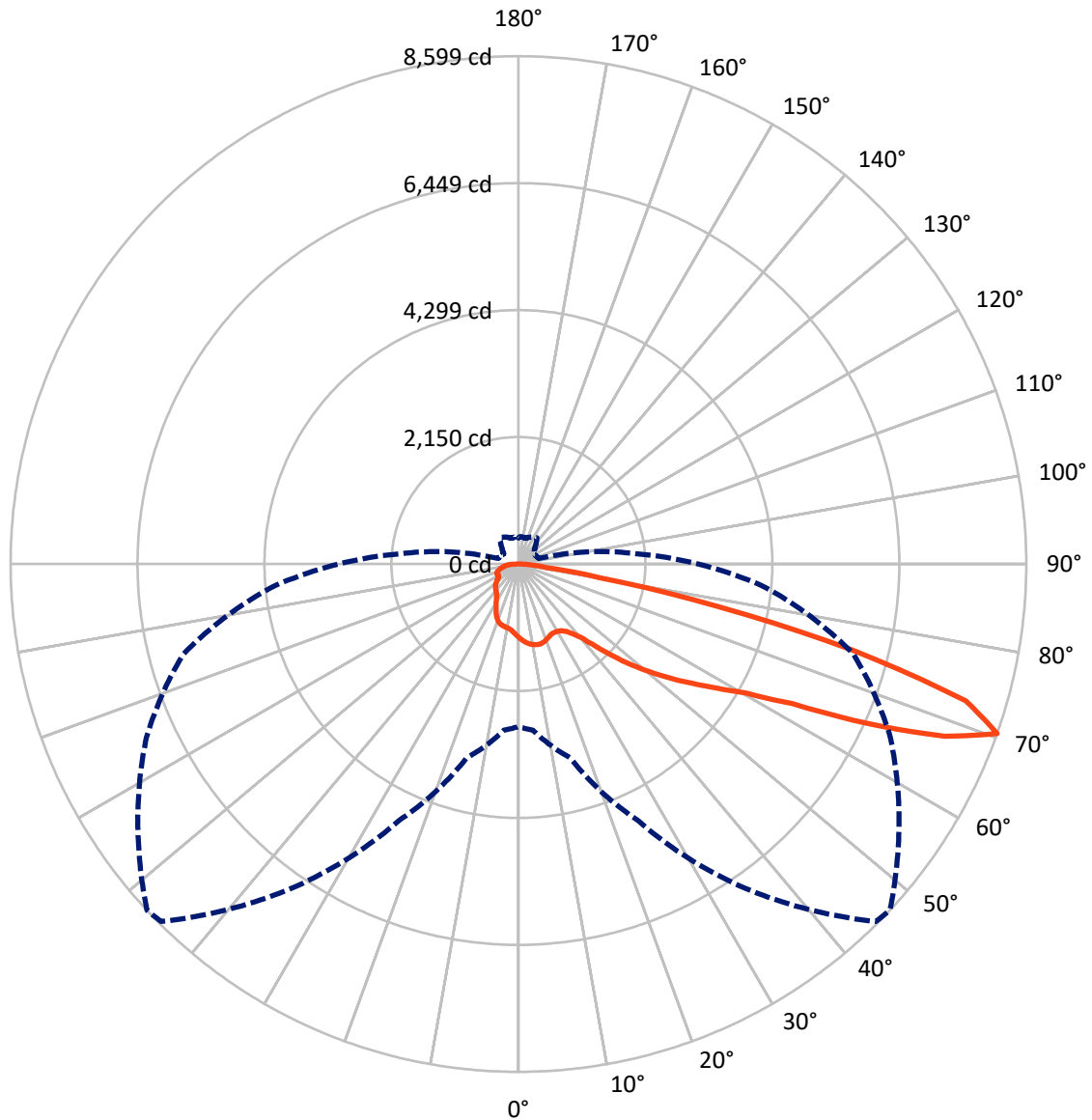


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	2235.9	0.0	2235.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8481.8	0.0	8481.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	10717.8	0.0	10717.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.1
10°-20°	349.6	3.3
20°-30°	516.2	4.8
30°-40°	750.3	7.0
40°-50°	1350.3	12.6
50°-60°	2339.3	21.8
60°-70°	3338.9	31.2
70°-80°	1714.0	16.0
80°-90°	240.0	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°	10717.8	100.0
0°-180°	10717.8	100.0



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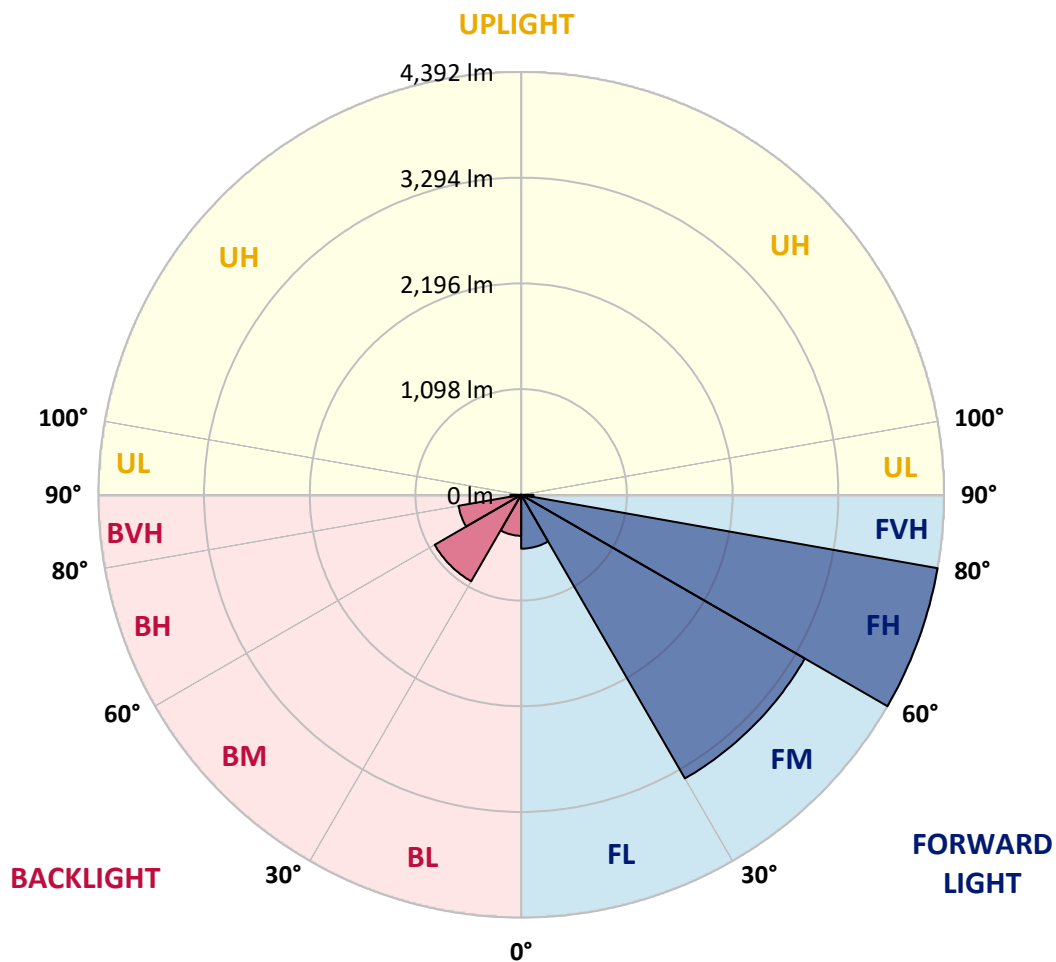
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.2	5.2			
FM	(30°-60°)	3402.1	31.7			
FH	(60°-80°)	4392.4	41.0			G2/5000
FVH	(80°-90°)	128.0	1.2			G2/225
BL	(0°-30°)	425.7	4.0	B1/500		
BM	(30°-60°)	1037.9	9.7	B2/2500		
BH	(60°-80°)	660.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	111.9	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°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1316.6	1314.0	1313.0	1310.8	1308.2	1295.3	1292.7	1283.1	1270.3	1256.5	1242.5
5°	1403.2	1402.7	1397.0	1386.4	1369.7	1341.1	1334.3	1311.3	1280.7	1250.9	1221.2
7.5°	1479.2	1474.6	1463.7	1442.8	1413.7	1374.4	1365.1	1333.3	1291.0	1250.4	1210.2
10°	1535.1	1532.5	1508.4	1479.8	1441.7	1398.4	1387.5	1352.0	1305.6	1254.0	1204.0
12.5°	1566.9	1561.7	1534.0	1499.6	1454.3	1412.0	1401.0	1365.1	1313.0	1254.0	1195.1
15°	1564.8	1561.2	1533.4	1495.9	1450.0	1413.0	1403.2	1367.2	1311.3	1248.9	1183.6
17.5°	1523.0	1524.7	1501.2	1464.1	1426.6	1398.4	1389.6	1356.3	1300.9	1238.4	1170.1
20°	1450.0	1457.4	1441.7	1408.9	1388.1	1368.7	1363.0	1334.8	1284.8	1223.2	1155.5
22.5°	1377.1	1383.8	1377.6	1350.0	1346.7	1335.4	1332.2	1312.0	1270.7	1213.9	1146.5
25°	1323.4	1329.6	1328.7	1304.6	1314.0	1313.4	1310.8	1300.9	1267.6	1213.9	1148.2
27.5°	1308.8	1310.8	1308.8	1286.9	1299.8	1310.4	1308.2	1306.7	1277.0	1229.1	1167.9
30°	1358.9	1355.7	1339.6	1295.3	1307.3	1321.8	1319.7	1320.8	1305.1	1268.6	1212.4
32.5°	1558.5	1544.5	1493.3	1368.7	1336.9	1344.8	1345.8	1363.0	1365.7	1329.6	1281.2
35°	1857.3	1841.6	1775.4	1565.8	1429.3	1402.2	1402.2	1428.1	1443.8	1417.3	1388.1
37.5°	2173.8	2156.7	2121.2	1839.1	1623.1	1501.6	1499.1	1517.3	1539.8	1546.1	1553.3
40°	2533.6	2515.3	2525.2	2145.6	1893.7	1674.4	1637.3	1624.2	1684.7	1724.8	1783.2
42.5°	2927.2	2919.0	2922.5	2487.1	2201.9	1932.4	1879.8	1812.5	1885.5	1956.9	2079.4
45°	3291.7	3299.0	3295.4	2852.7	2545.1	2247.3	2191.5	2061.3	2132.7	2255.1	2454.9
47.5°	3610.8	3580.6	3627.5	3252.1	2929.4	2599.9	2531.0	2356.3	2428.7	2580.0	2917.9
50°	3998.3	3994.1	3925.2	3785.0	3393.9	2953.8	2863.6	2661.4	2774.0	2984.1	3501.4
52.5°	4405.5	4329.9	4266.8	4199.5	3886.6	3316.8	3206.2	2965.3	3179.6	3444.0	4212.6
55°	4488.9	4455.1	4533.2	4646.5	4361.7	3693.8	3565.0	3346.5	3636.3	3969.6	5032.8
57.5°	4667.2	4666.8	4828.4	5030.1	4850.8	4093.7	3964.0	3806.8	4150.0	4571.8	5903.5
60°	4787.6	4821.7	5122.0	5513.5	5331.0	4555.7	4436.3	4338.3	4734.0	5245.1	6714.9
62.5°	4850.8	4896.8	5306.6	5709.5	6009.9	5324.8	5205.4	5064.0	5506.8	5983.3	7189.3
65°	4588.5	4678.7	5277.8	5879.0	6604.3	6571.6	6517.8	6269.6	6472.9	6566.8	7017.9
67.5°	3862.7	3955.0	4652.7	5721.0	7028.8	7773.9	7785.4	7361.5	7067.3	6616.8	5900.4
70°	2752.0	2824.5	3401.8	4796.6	6705.5	8559.7	8598.8	7864.7	6949.0	5868.1	4122.4
72.5°	1306.7	1351.1	1897.5	3121.8	5321.1	7842.7	7918.3	7222.3	5908.8	4344.6	2248.8
75°	480.2	493.8	641.4	1328.1	3086.2	5783.6	5872.8	5177.2	3916.9	2162.8	856.8
77.5°	287.8	296.7	359.9	560.5	1213.9	3305.9	3437.8	2815.6	1711.8	805.2	421.3
80°	201.3	207.5	258.2	348.8	573.6	1259.8	1377.1	1149.2	682.1	509.3	306.6
82.5°	136.2	139.1	181.5	235.6	381.2	450.1	485.4	511.0	459.9	379.1	194.6
85°	89.1	92.3	123.1	155.3	242.5	232.5	237.8	300.8	335.7	257.5	107.9
87.5°	51.2	53.2	74.0	83.0	118.8	98.5	99.6	158.6	214.9	173.6	65.7
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°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1238.9	1232.1	1217.1	1207.6	1198.8	1196.6	1192.9	1192.5	1192.1	1192.1	1190.4
5°	1211.3	1199.7	1176.3	1163.2	1152.3	1151.3	1150.8	1153.5	1154.4	1155.5	1154.0
7.5°	1193.6	1177.9	1148.8	1129.9	1117.0	1113.8	1119.0	1131.0	1138.8	1141.9	1140.4
10°	1182.6	1163.2	1129.3	1109.0	1098.1	1096.6	1103.4	1117.4	1133.7	1139.8	1139.3
12.5°	1170.1	1148.2	1112.2	1090.8	1084.6	1087.7	1096.6	1109.5	1126.3	1136.1	1136.7
15°	1157.6	1132.0	1095.0	1076.2	1073.7	1077.7	1086.1	1096.0	1109.0	1119.0	1120.0
17.5°	1142.5	1115.9	1078.9	1059.6	1057.5	1059.6	1060.1	1065.3	1073.7	1082.9	1085.6
20°	1126.3	1099.2	1060.5	1041.2	1032.0	1023.6	1014.1	1015.3	1017.8	1027.2	1029.3
22.5°	1114.7	1087.7	1046.4	1019.8	994.9	969.8	951.0	948.5	949.5	957.4	960.0
25°	1115.9	1087.2	1042.8	996.9	942.2	902.1	877.0	872.9	872.3	878.1	881.7
27.5°	1136.1	1107.5	1056.3	973.6	884.9	825.5	798.9	795.7	791.5	793.1	797.2
30°	1181.5	1155.0	1089.3	949.5	822.8	750.4	722.6	719.5	713.9	711.2	714.3
32.5°	1255.7	1233.7	1137.3	926.6	760.8	686.1	658.1	651.2	647.6	644.4	647.0
35°	1378.7	1369.2	1201.4	901.5	706.0	636.7	611.0	600.6	595.4	601.1	605.4
37.5°	1571.6	1576.7	1285.4	862.5	663.8	603.8	582.5	570.5	562.6	567.3	572.0
40°	1844.8	1848.4	1378.1	807.1	627.2	584.4	561.6	550.7	539.7	531.3	530.8
42.5°	2203.5	2166.5	1469.4	747.2	585.1	572.5	547.0	533.5	516.7	493.8	489.0
45°	2629.0	2499.2	1538.7	678.4	537.5	557.9	530.8	512.0	486.0	460.9	458.3
47.5°	3119.2	2856.4	1572.7	607.0	493.3	536.6	511.0	481.3	448.4	435.9	434.3
50°	3717.7	3280.3	1588.8	537.5	454.7	508.4	482.3	447.4	419.8	417.2	415.6
52.5°	4399.3	3790.2	1594.0	480.8	422.9	471.9	458.9	425.0	403.1	405.1	405.1
55°	5112.6	4316.9	1523.0	439.6	393.6	434.3	443.3	416.1	397.9	406.3	409.3
57.5°	5767.5	4783.6	1299.8	407.7	366.0	405.7	437.5	424.4	412.0	445.7	448.0
60°	6270.1	5059.3	970.9	379.1	345.7	395.8	452.6	456.2	459.4	540.2	551.1
62.5°	6375.5	4967.5	667.4	356.6	336.3	404.1	480.2	480.8	477.1	533.5	540.2
65°	5892.2	4387.2	485.4	344.1	328.5	419.1	503.7	492.7	468.7	511.6	499.0
67.5°	4679.2	3305.4	404.1	334.8	317.0	418.3	528.7	503.7	464.1	501.1	480.8
70°	3037.3	1998.5	359.9	327.0	303.4	398.4	543.4	502.6	450.5	466.1	442.1
72.5°	1481.8	893.8	330.0	315.5	289.4	370.7	542.8	493.3	436.4	435.4	422.4
75°	579.9	409.3	303.0	298.2	265.4	339.5	528.3	479.8	419.8	403.1	398.4
77.5°	339.5	291.9	268.6	272.7	236.8	308.2	506.9	456.2	396.8	377.0	371.8
80°	247.2	218.5	228.9	235.6	202.3	276.9	478.2	427.6	371.3	381.2	373.9
82.5°	158.6	140.8	185.6	192.3	168.4	245.1	446.8	397.3	335.2	304.5	297.2
85°	80.8	89.1	138.2	146.6	129.8	201.3	408.8	357.2	294.6	253.4	257.5
87.5°	45.4	61.1	88.2	98.5	91.7	154.9	331.7	294.6	240.3	195.6	172.0
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)