

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: P270240

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270240
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11757.1 lumens
Efficiency: N/A
Efficacy: 91.1 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): 129
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

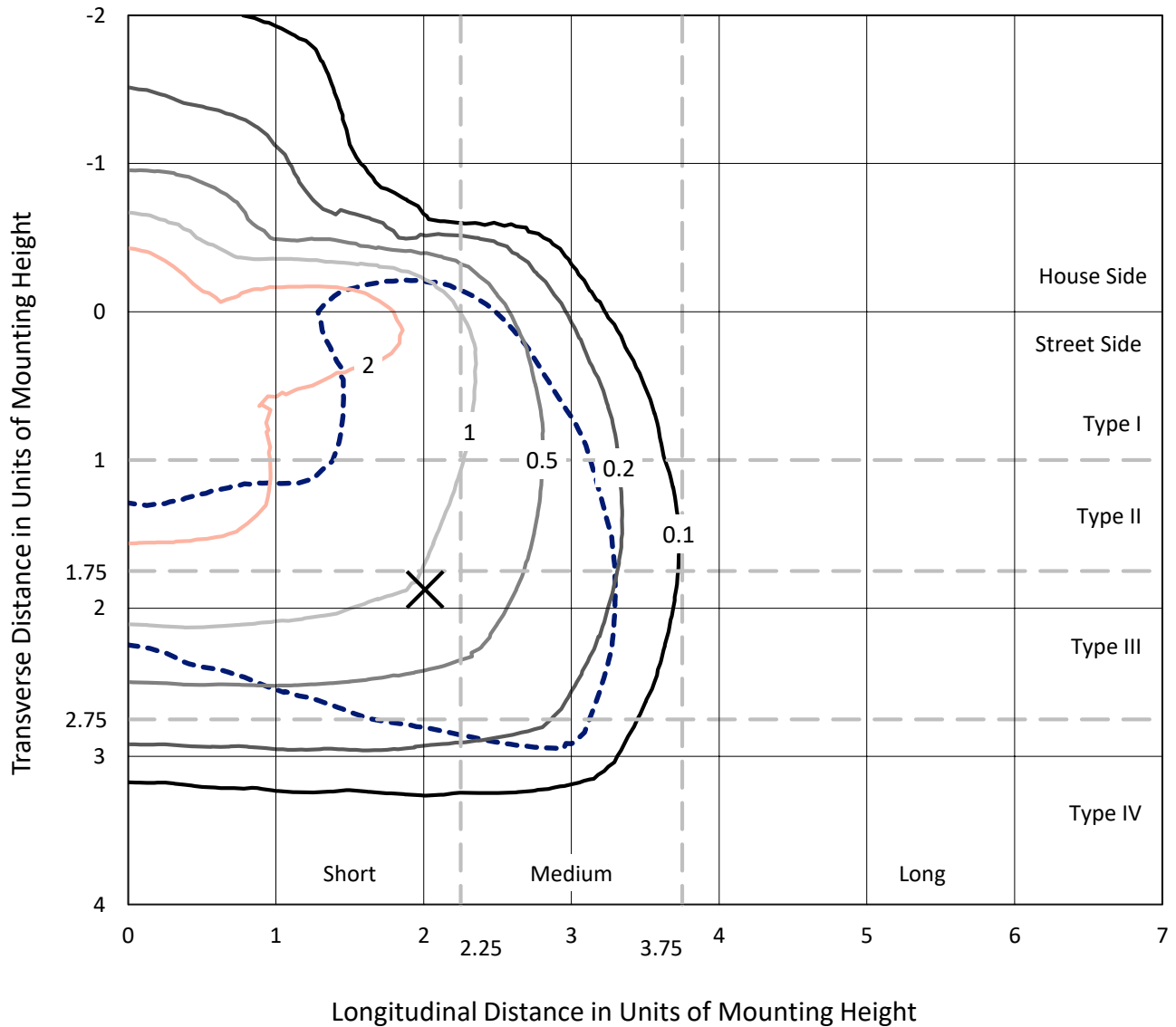


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Iso-Footcandle Lines of Horizontal Illumination

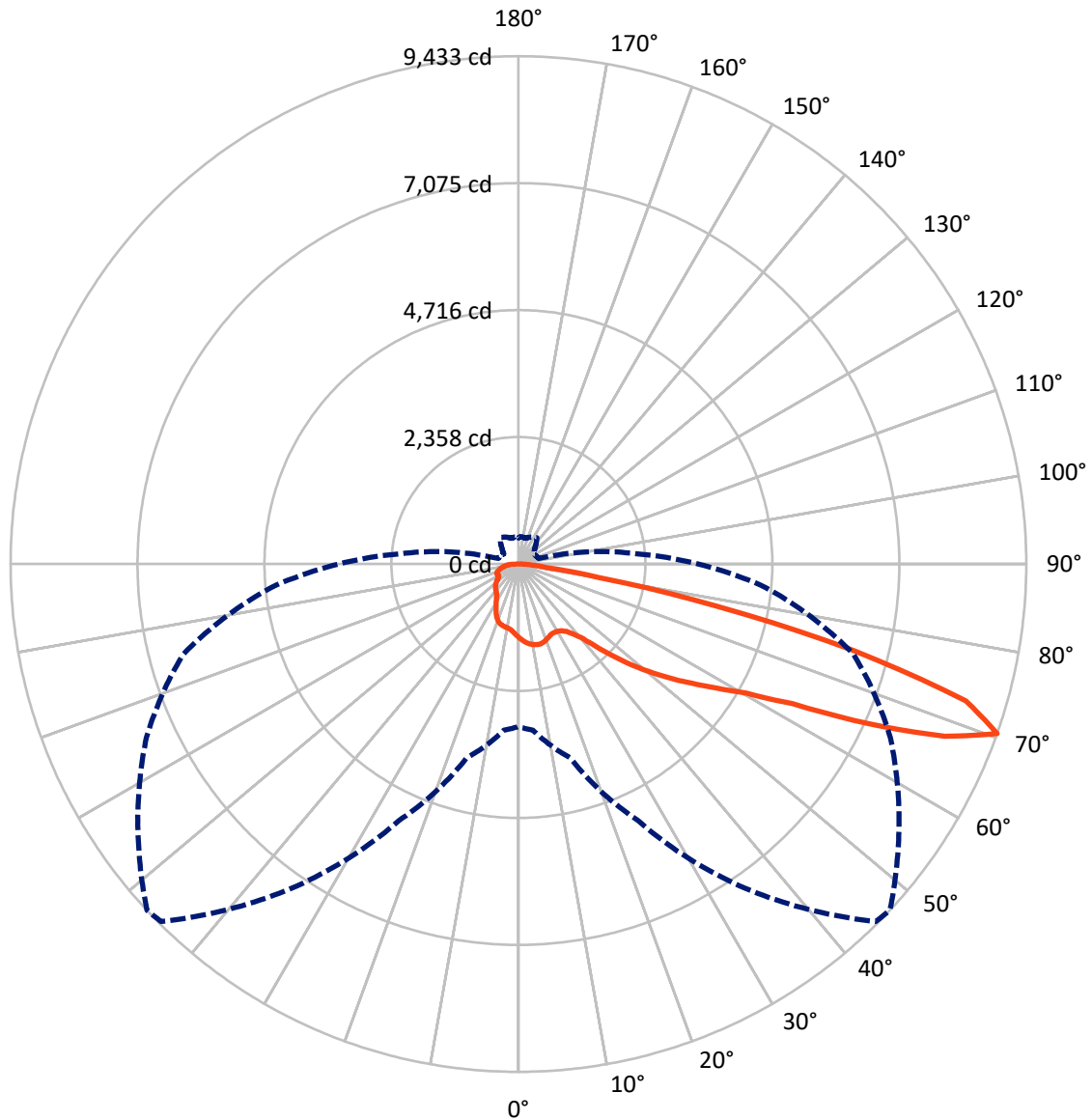
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	2452.8	0.0	2452.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9304.4	0.0	9304.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	11757.1	0.0	11757.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.1
10°-20°	383.5	3.3
20°-30°	566.3	4.8
30°-40°	823.1	7.0
40°-50°	1481.3	12.6
50°-60°	2566.2	21.8
60°-70°	3662.7	31.2
70°-80°	1880.2	16.0
80°-90°	263.2	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°	11757.1	100.0
0°-180°	11757.1	100.0



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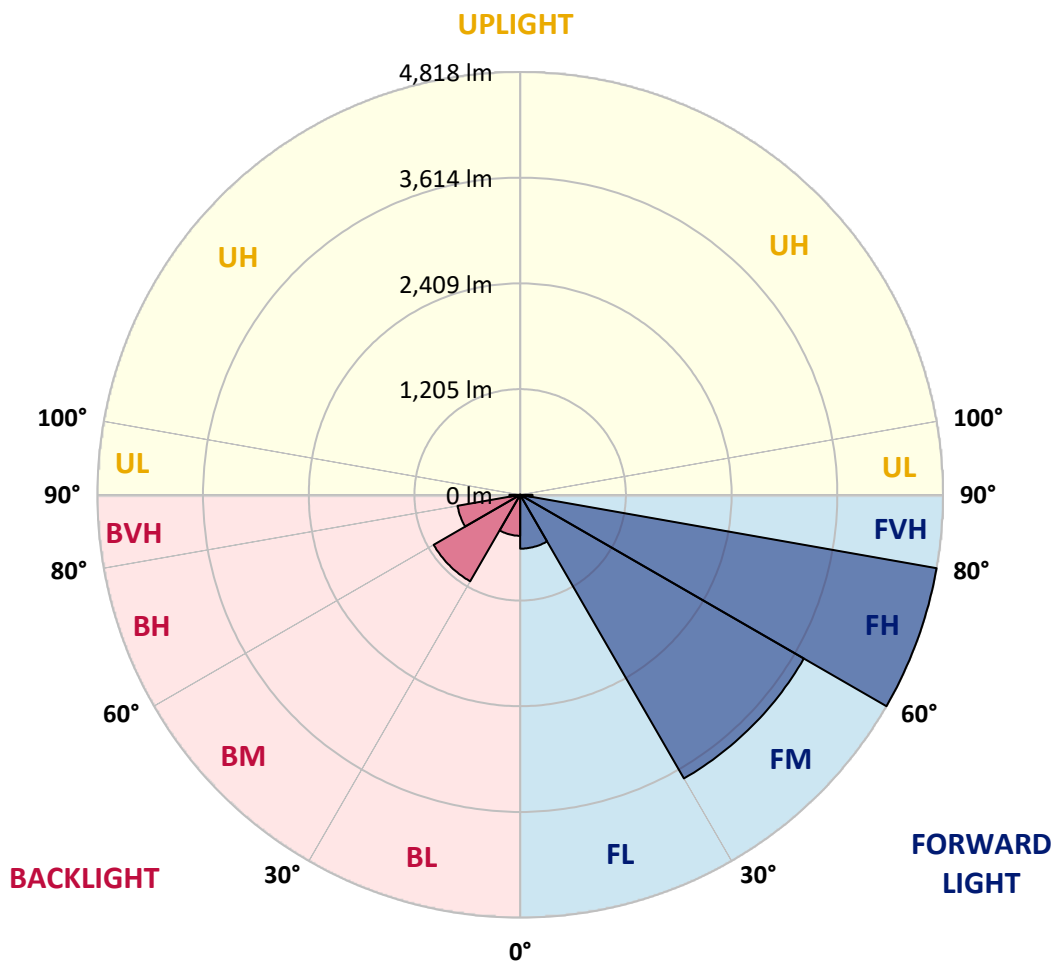
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.5	5.2			
FM (30°-60°)	3732.0	31.7			
FH (60°-80°)	4818.4	41.0			G2/5000
FVH (80°-90°)	140.5	1.2			G2/225
BL (0°-30°)	467.0	4.0	B1/500		
BM (30°-60°)	1138.5	9.7	B2/2500		
BH (60°-80°)	724.5	6.2	B2/1000		G2/1000
BVH (80°-90°)	122.8	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°	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2
2.5°	1444.2	1441.4	1440.3	1437.9	1435.1	1420.8	1418.0	1407.6	1393.5	1378.4	1363.1
5°	1539.2	1538.6	1532.4	1520.9	1502.7	1471.2	1463.7	1438.5	1404.8	1372.3	1339.6
7.5°	1622.8	1617.6	1605.6	1582.8	1550.7	1507.7	1497.5	1462.6	1416.3	1371.6	1327.5
10°	1684.0	1681.1	1654.8	1623.2	1581.6	1534.0	1522.1	1483.2	1432.3	1375.7	1320.7
12.5°	1718.8	1713.1	1682.7	1645.1	1595.3	1548.9	1536.9	1497.5	1440.3	1375.7	1310.9
15°	1716.5	1712.6	1682.3	1641.1	1590.7	1550.0	1539.2	1499.8	1438.5	1369.9	1298.4
17.5°	1670.8	1672.6	1646.8	1606.2	1564.9	1534.0	1524.3	1487.8	1427.0	1358.4	1283.6
20°	1590.7	1598.8	1581.6	1545.5	1522.6	1501.4	1495.1	1464.2	1409.4	1341.9	1267.5
22.5°	1510.6	1518.0	1511.2	1480.9	1477.4	1464.9	1461.5	1439.2	1393.9	1331.6	1257.7
25°	1451.8	1458.6	1457.4	1431.1	1441.4	1440.8	1437.9	1427.0	1390.4	1331.6	1259.6
27.5°	1435.8	1437.9	1435.8	1411.6	1426.0	1437.4	1435.1	1433.4	1400.7	1348.1	1281.3
30°	1490.6	1487.1	1469.4	1420.8	1434.0	1450.0	1447.7	1448.8	1431.7	1391.7	1329.9
32.5°	1709.7	1694.3	1638.1	1501.4	1466.7	1475.1	1476.4	1495.1	1498.1	1458.6	1405.4
35°	2037.4	2020.3	1947.6	1717.6	1567.8	1538.1	1538.1	1566.6	1583.8	1554.6	1522.6
37.5°	2384.6	2365.7	2326.9	2017.5	1780.6	1647.3	1644.4	1664.5	1689.2	1696.0	1703.9
40°	2779.3	2759.2	2770.2	2353.7	2077.5	1836.7	1796.0	1781.8	1848.2	1892.1	1956.1
42.5°	3211.1	3202.0	3206.1	2728.4	2415.5	2119.8	2062.0	1988.3	2068.3	2146.7	2281.1
45°	3610.9	3619.0	3615.0	3129.3	2791.9	2465.3	2404.0	2261.0	2339.5	2473.8	2692.8
47.5°	3961.0	3927.8	3979.3	3567.4	3213.4	2851.9	2776.4	2584.9	2664.4	2830.2	3200.9
50°	4386.1	4381.5	4305.9	4152.1	3723.0	3240.4	3141.4	2919.4	3043.0	3273.6	3841.0
52.5°	4832.7	4749.8	4680.6	4606.8	4263.6	3638.4	3517.1	3252.9	3487.9	3778.0	4621.2
55°	4924.2	4887.0	4972.8	5097.1	4784.7	4052.0	3910.7	3671.1	3989.1	4354.5	5520.9
57.5°	5119.9	5119.4	5296.6	5518.0	5321.2	4490.6	4348.2	4176.1	4552.5	5015.1	6476.2
60°	5252.0	5289.2	5618.7	6048.2	5848.1	4997.5	4866.5	4759.0	5193.1	5753.6	7366.1
62.5°	5321.2	5371.5	5821.1	6263.3	6592.8	5841.1	5710.2	5555.2	6040.8	6563.6	7886.6
65°	5033.6	5132.5	5789.7	6449.2	7244.8	7208.8	7149.9	6877.7	7100.7	7203.7	7698.5
67.5°	4237.3	4338.5	5103.9	6275.9	7710.4	8527.8	8540.4	8075.4	7752.7	7258.6	6472.6
70°	3018.9	3098.4	3731.6	5261.7	7355.9	9389.9	9432.7	8627.3	7622.8	6437.2	4522.2
72.5°	1433.4	1482.1	2081.5	3424.5	5837.1	8603.2	8686.3	7922.6	6481.8	4765.8	2466.9
75°	526.8	541.7	703.6	1456.8	3385.6	6344.5	6442.4	5679.4	4296.9	2372.7	939.7
77.5°	315.8	325.5	394.6	614.9	1331.6	3626.4	3771.2	3088.7	1877.8	883.2	462.2
80°	220.9	227.6	283.1	382.7	629.3	1382.0	1510.6	1260.7	748.2	558.8	336.3
82.5°	149.3	152.7	199.1	258.5	418.2	493.6	532.5	560.5	504.5	415.8	213.3
85°	97.8	101.2	134.9	170.5	266.0	255.1	260.8	330.0	368.3	282.5	118.3
87.5°	56.1	58.3	81.2	91.0	130.4	108.1	109.2	173.9	235.6	190.5	72.0
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°	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2	1364.2
2.5°	1359.0	1351.6	1335.1	1324.7	1314.9	1312.8	1308.7	1308.1	1307.6	1307.6	1305.9
5°	1328.8	1316.1	1290.4	1276.1	1264.0	1262.9	1262.4	1265.3	1266.4	1267.5	1265.8
7.5°	1309.3	1292.1	1260.1	1239.5	1225.2	1221.8	1227.5	1240.6	1249.3	1252.6	1250.9
10°	1297.3	1276.1	1238.9	1216.7	1204.5	1202.9	1210.3	1225.7	1243.6	1250.4	1249.8
12.5°	1283.6	1259.6	1220.1	1196.6	1189.7	1193.2	1202.9	1217.3	1235.4	1246.4	1246.9
15°	1269.8	1241.7	1201.2	1180.6	1177.7	1182.3	1191.4	1202.3	1216.7	1227.5	1228.6
17.5°	1253.2	1224.1	1183.4	1162.2	1160.0	1162.2	1162.9	1168.5	1177.7	1188.0	1191.0
20°	1235.4	1205.7	1163.5	1142.3	1132.0	1122.8	1112.6	1113.7	1116.6	1126.8	1129.1
22.5°	1223.0	1193.2	1147.9	1118.7	1091.4	1064.0	1043.3	1040.4	1041.6	1050.2	1053.1
25°	1224.1	1192.6	1144.0	1093.6	1033.6	989.6	962.1	957.6	957.0	963.3	967.3
27.5°	1246.4	1214.9	1158.9	1067.9	970.7	905.4	876.2	872.9	868.3	870.0	874.6
30°	1296.2	1267.0	1194.8	1041.6	902.5	823.0	792.8	789.3	783.1	780.2	783.6
32.5°	1377.3	1353.3	1247.4	1016.4	834.5	752.7	721.9	714.4	710.4	707.0	709.8
35°	1512.3	1502.1	1317.9	988.9	774.5	698.4	670.3	658.9	653.2	659.4	664.0
37.5°	1723.9	1729.6	1410.0	946.0	728.2	662.4	639.0	625.8	617.1	622.3	627.5
40°	2023.7	2027.7	1511.8	885.4	688.1	641.2	616.1	604.0	592.1	582.9	582.3
42.5°	2417.2	2376.6	1611.9	819.7	641.7	628.0	600.0	585.2	566.8	541.7	536.6
45°	2884.0	2741.5	1687.9	744.2	589.6	612.0	582.3	561.7	533.1	505.7	502.8
47.5°	3421.6	3133.4	1725.1	665.9	541.0	588.6	560.5	527.9	491.9	478.2	476.6
50°	4078.2	3598.4	1742.8	589.6	498.7	557.7	529.1	490.7	460.4	457.5	455.9
52.5°	4825.9	4157.7	1748.6	527.3	463.9	517.7	503.3	466.2	442.1	444.4	444.4
55°	5608.4	4735.5	1670.8	482.2	431.8	476.6	486.3	456.5	436.4	445.6	449.1
57.5°	6326.9	5247.4	1426.0	447.3	401.5	445.0	480.0	465.6	451.8	489.0	491.4
60°	6878.2	5550.0	1065.0	415.8	379.3	434.2	496.6	500.4	503.9	592.6	604.6
62.5°	6993.8	5449.4	732.2	391.2	368.9	443.4	526.8	527.3	523.4	585.2	592.6
65°	6463.5	4812.7	532.5	377.5	360.4	459.9	552.5	540.5	514.2	561.1	547.3
67.5°	5133.1	3625.9	443.4	367.1	347.7	458.8	579.9	552.5	509.1	549.8	527.3
70°	3331.9	2192.5	394.6	358.7	332.9	436.9	596.0	551.4	494.2	511.3	485.1
72.5°	1625.7	980.4	362.0	346.0	317.5	406.8	595.4	541.0	478.7	477.5	463.3
75°	636.1	449.1	332.4	327.3	291.1	372.3	579.4	526.2	460.4	442.1	436.9
77.5°	372.3	320.3	294.6	299.1	259.7	338.0	556.1	500.4	435.3	413.6	407.8
80°	271.1	239.7	251.0	258.5	221.9	303.7	524.5	469.0	407.2	418.2	410.2
82.5°	173.9	154.5	203.6	211.0	184.7	268.9	490.1	435.9	367.8	334.0	326.1
85°	88.7	97.8	151.5	160.7	142.4	220.9	448.4	391.8	323.2	277.9	282.5
87.5°	49.8	67.0	96.7	108.1	100.7	169.9	363.8	323.2	263.7	214.4	188.7
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)