

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: P200674

Luminaire Tested: **GWC-AF-02-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11122 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full 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



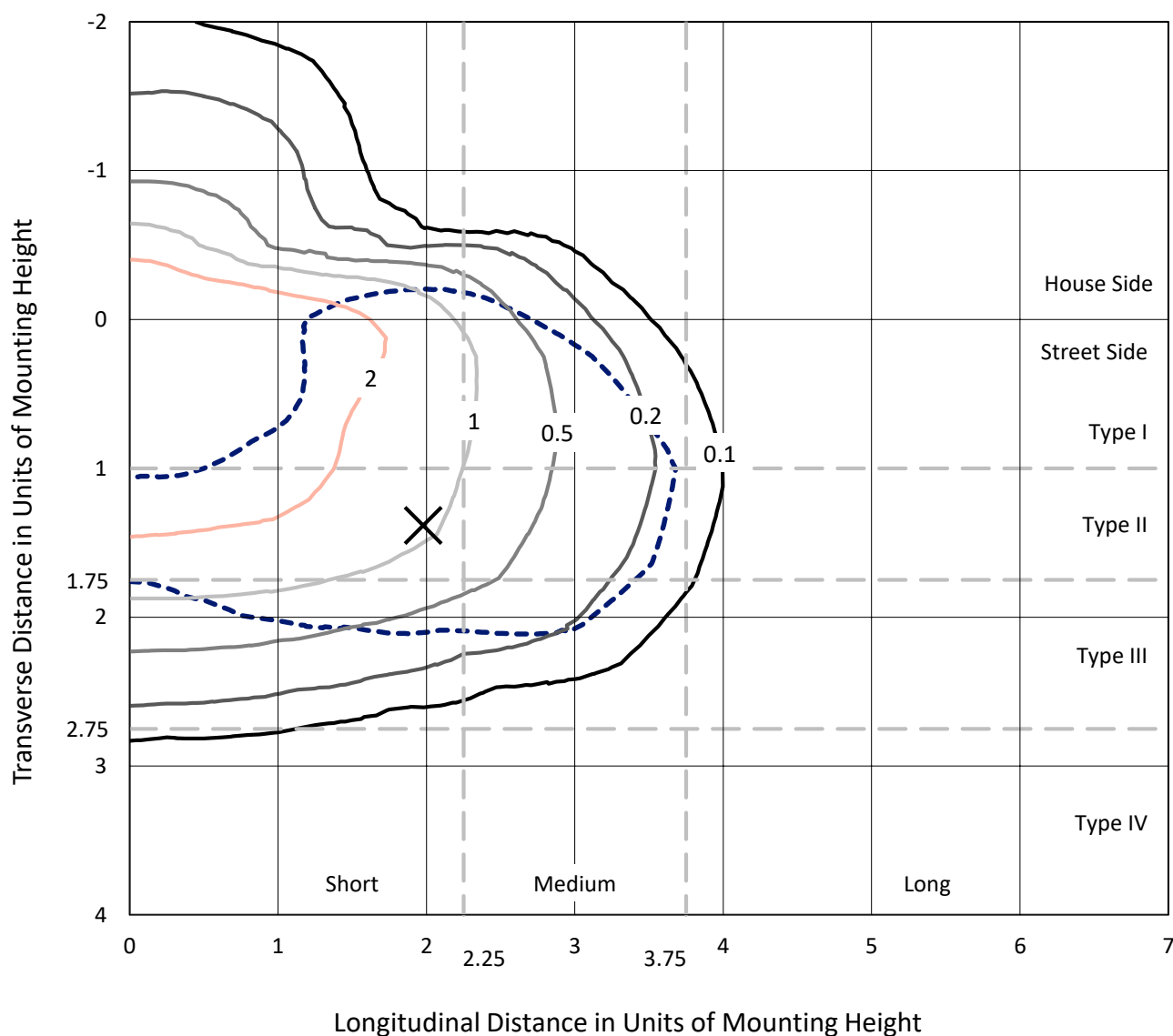
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

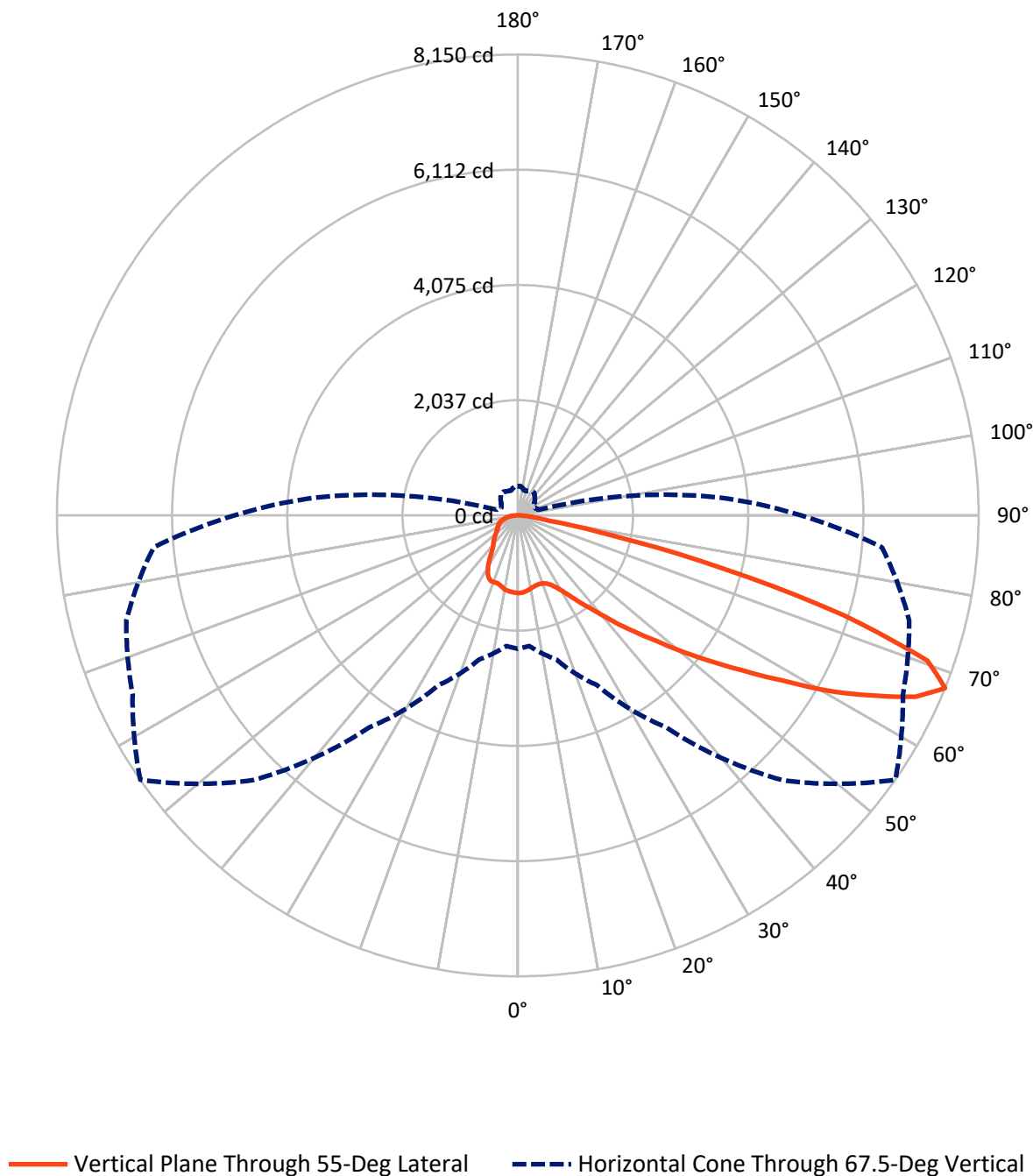


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2402.6	0.0	2402.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8719.4	0.0	8719.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	11122.0	0.0	11122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.2
10°-20°	362.5	3.3
20°-30°	607.3	5.5
30°-40°	998.7	9.0
40°-50°	1681.1	15.1
50°-60°	2645.9	23.8
60°-70°	3157.6	28.4
70°-80°	1355.9	12.2
80°-90°	184.9	1.7
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°	11122.0	100.0
0°-180°	11122.0	100.0

Coefficient of Utilization



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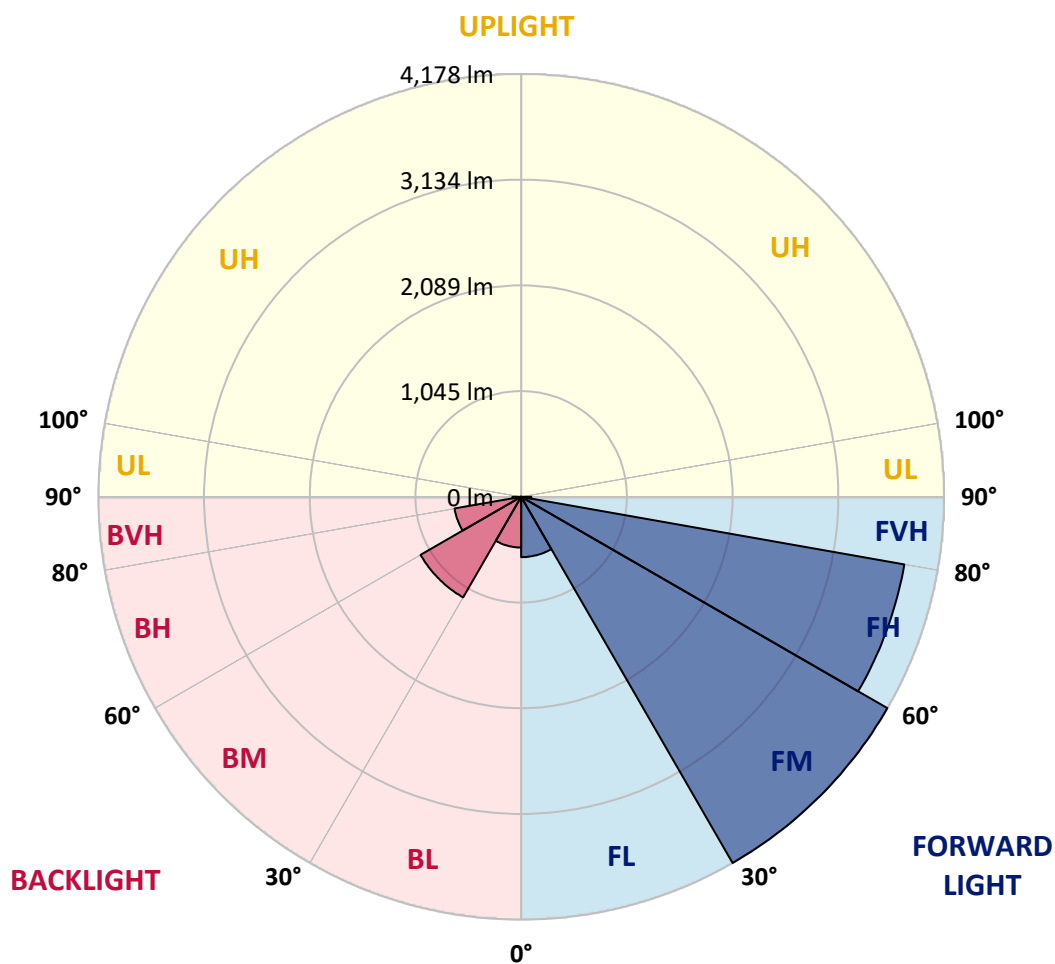
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	596.2	5.4			
FM	(30°-60°)	4178.2	37.6			
FH	(60°-80°)	3844.9	34.6			G2/5000
FVH	(80°-90°)	100.1	0.9			G2/225
BL	(0°-30°)	501.7	4.5	B2/1000		
BM	(30°-60°)	1147.5	10.3	B2/2500		
BH	(60°-80°)	668.6	6.0	B2/1000		G2/1000
BVH	(80°-90°)	84.8	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1359.6	1360.2	1361.3	1365.6	1369.3	1368.2	1368.8	1366.6	1366.1	1362.9	1366.1
5°	1342.5	1344.1	1344.6	1351.6	1355.9	1357.0	1355.3	1352.7	1349.4	1346.2	1347.8
7.5°	1303.2	1307.5	1308.1	1317.7	1324.7	1333.9	1334.4	1334.9	1333.3	1331.2	1334.4
10°	1278.5	1279.6	1279.1	1286.0	1291.4	1301.6	1307.5	1317.7	1322.0	1323.1	1325.3
12.5°	1276.9	1275.8	1274.2	1274.2	1272.6	1276.9	1287.7	1302.2	1312.4	1315.6	1318.3
15°	1294.1	1293.6	1288.2	1280.1	1269.9	1266.7	1275.8	1292.0	1305.4	1312.4	1315.1
17.5°	1332.8	1329.6	1321.0	1302.7	1280.7	1272.1	1273.2	1286.6	1302.2	1311.3	1314.0
20°	1403.7	1403.7	1385.4	1351.1	1311.8	1291.4	1281.8	1289.8	1304.9	1317.2	1321.0
22.5°	1526.2	1527.3	1496.6	1440.2	1374.2	1330.6	1306.5	1304.9	1322.6	1336.5	1340.8
25°	1699.7	1695.4	1652.4	1571.8	1471.4	1399.4	1357.5	1347.8	1362.9	1378.4	1383.8
27.5°	1901.7	1886.1	1835.1	1737.8	1607.8	1502.5	1438.1	1422.5	1437.0	1454.7	1460.1
30°	2101.5	2085.4	2024.7	1918.3	1773.8	1640.6	1548.2	1523.0	1543.4	1568.6	1571.8
32.5°	2301.4	2301.4	2233.7	2109.6	1952.2	1805.5	1694.9	1664.8	1698.6	1729.2	1736.2
35°	2540.4	2541.5	2475.9	2326.6	2157.4	2002.1	1880.2	1858.2	1909.2	1930.7	1947.3
37.5°	2834.3	2840.2	2755.8	2575.3	2390.0	2226.7	2081.6	2051.6	2102.6	2161.1	2214.9
40°	3151.7	3159.3	3066.3	2843.9	2658.6	2487.8	2330.9	2276.6	2361.5	2473.3	2542.6
42.5°	3454.7	3493.4	3403.7	3174.8	2975.5	2798.8	2639.8	2560.8	2667.2	2835.9	2896.0
45°	3892.5	3920.5	3764.1	3556.8	3369.3	3171.6	2961.0	2877.8	3026.6	3239.3	3251.7
47.5°	4184.2	4163.3	4083.8	3954.8	3836.1	3651.3	3334.4	3243.1	3440.7	3691.1	3621.8
50°	4339.5	4345.9	4335.2	4342.7	4347.0	4231.0	3792.1	3666.9	3902.7	4205.2	4045.6
52.5°	4484.5	4441.5	4477.0	4653.2	4865.9	4823.0	4290.1	4159.5	4398.0	4775.7	4493.7
55°	4481.3	4415.8	4531.3	4842.3	5303.7	5353.2	4849.3	4698.9	4921.8	5387.5	4968.5
57.5°	4322.8	4326.0	4503.9	4911.1	5608.9	5851.7	5498.2	5272.6	5477.3	6007.5	5402.1
60°	4104.7	4134.3	4390.5	4899.8	5853.3	6260.5	6294.3	5890.9	6021.4	6571.0	5760.9
62.5°	3752.9	3784.0	4137.5	4782.7	5816.2	6654.3	7014.2	6592.5	6590.3	6912.7	5866.2
65°	3197.9	3188.8	3560.0	4344.8	5505.2	6945.4	7729.2	7199.0	7019.0	6918.0	5654.5
67.5°	2358.3	2317.5	2636.0	3309.1	4575.8	6619.3	8149.8	7514.8	7165.1	6463.0	5007.8
70°	1223.7	1182.9	1440.8	1932.3	3009.4	5166.2	7684.1	7351.5	6842.3	5417.6	3923.2
72.5°	523.2	516.2	621.0	847.7	1455.8	2979.8	6025.2	6363.1	5871.0	4036.5	2697.3
75°	351.9	349.7	388.9	462.0	654.8	1209.2	3770.6	4516.8	4295.4	2502.8	1517.0
77.5°	276.1	273.4	296.5	332.0	424.4	477.0	1673.4	2424.9	2244.4	1089.4	664.0
80°	216.0	213.8	228.3	247.6	305.1	300.8	550.6	964.8	746.7	417.4	322.9
82.5°	170.3	170.3	182.1	182.6	216.5	205.2	287.4	424.9	372.8	243.4	197.7
85°	155.8	155.8	168.1	136.4	141.3	129.5	178.3	251.9	236.4	99.9	86.0
87.5°	78.4	76.3	141.3	120.9	76.8	68.8	87.0	121.9	131.1	55.3	43.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1365.0	1364.5	1365.6	1366.1	1370.4	1376.3	1379.0	1382.7	1384.9	1383.8
5°	1348.9	1350.0	1354.3	1357.5	1365.0	1374.7	1380.1	1384.4	1388.1	1386.5
7.5°	1335.5	1338.2	1344.6	1347.3	1351.6	1354.3	1353.7	1355.3	1358.6	1354.8
10°	1328.0	1331.2	1336.0	1332.2	1322.0	1307.5	1294.1	1287.1	1289.3	1286.6
12.5°	1320.4	1324.7	1321.0	1303.2	1274.8	1256.0	1245.8	1246.8	1251.7	1252.7
15°	1316.1	1317.7	1301.6	1268.3	1239.3	1236.6	1242.0	1240.9	1241.5	1241.5
17.5°	1316.1	1311.8	1281.8	1248.4	1236.1	1231.3	1214.6	1193.7	1184.5	1181.3
20°	1323.1	1311.8	1275.3	1253.3	1226.4	1185.1	1141.0	1102.3	1085.1	1080.3
22.5°	1344.1	1324.7	1293.6	1255.4	1179.1	1109.8	1040.0	993.8	962.7	957.3
25°	1386.5	1365.0	1329.6	1227.0	1103.9	1005.1	925.6	874.0	842.9	838.6
27.5°	1460.6	1446.7	1348.9	1164.1	1004.0	898.2	824.6	784.8	761.7	760.1
30°	1572.4	1565.4	1339.2	1071.2	881.0	794.5	759.1	736.0	718.8	718.2
32.5°	1750.7	1694.3	1307.5	957.8	768.7	720.9	706.4	692.4	679.0	679.0
35°	1980.1	1798.5	1247.4	836.4	700.5	680.1	661.8	639.8	622.1	621.0
37.5°	2249.8	1863.0	1139.4	738.6	668.3	652.7	625.8	593.1	561.9	556.5
40°	2522.1	1882.3	987.4	678.5	647.9	625.3	592.5	553.9	523.8	522.2
42.5°	2771.9	1845.3	826.2	637.1	627.4	597.4	563.0	528.6	505.0	504.4
45°	2981.4	1749.1	690.8	597.9	606.0	572.1	541.5	513.6	495.3	491.5
47.5°	3178.6	1613.2	595.8	556.5	584.5	558.1	532.4	506.0	488.3	485.6
50°	3407.4	1466.5	529.1	516.2	565.7	553.3	539.9	512.5	482.9	479.7
52.5°	3684.6	1339.8	477.0	480.8	551.2	559.8	559.2	530.8	479.2	474.9
55°	3994.1	1199.0	437.8	451.8	545.3	571.6	564.1	547.9	482.4	476.0
57.5°	4298.7	1034.6	410.4	429.8	536.7	570.5	541.0	517.9	489.9	480.8
60°	4527.0	813.9	389.5	410.4	517.9	552.8	515.7	485.1	488.3	481.3
62.5°	4542.0	629.1	364.2	393.8	489.4	535.0	499.1	470.6	495.3	488.8
65°	4275.0	475.4	340.0	373.9	458.8	523.8	482.9	462.5	509.8	502.8
67.5°	3599.2	382.5	319.6	353.5	428.1	500.1	468.4	455.0	522.7	510.3
70°	2598.4	326.1	299.8	328.8	400.7	473.3	455.5	441.6	487.8	468.4
72.5°	1599.8	282.6	277.2	296.0	379.8	445.3	436.2	416.3	439.4	423.8
75°	798.8	245.0	251.9	263.8	350.3	413.6	404.0	384.1	387.3	384.1
77.5°	382.5	209.5	222.4	231.5	312.1	377.6	367.4	347.0	343.3	343.8
80°	242.3	175.1	187.5	193.9	278.8	335.7	325.5	305.1	348.1	322.9
82.5°	151.5	142.4	145.6	157.4	242.8	292.2	278.8	260.5	313.7	248.2
85°	83.8	99.4	103.7	113.9	186.9	244.4	231.0	207.9	186.4	183.2
87.5°	50.0	59.1	60.7	68.2	125.7	176.7	156.3	148.3	123.0	122.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)