

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: P270229

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270229
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-T3-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10795.3 lumens
Efficiency: N/A
Efficacy: 95.5 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): 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

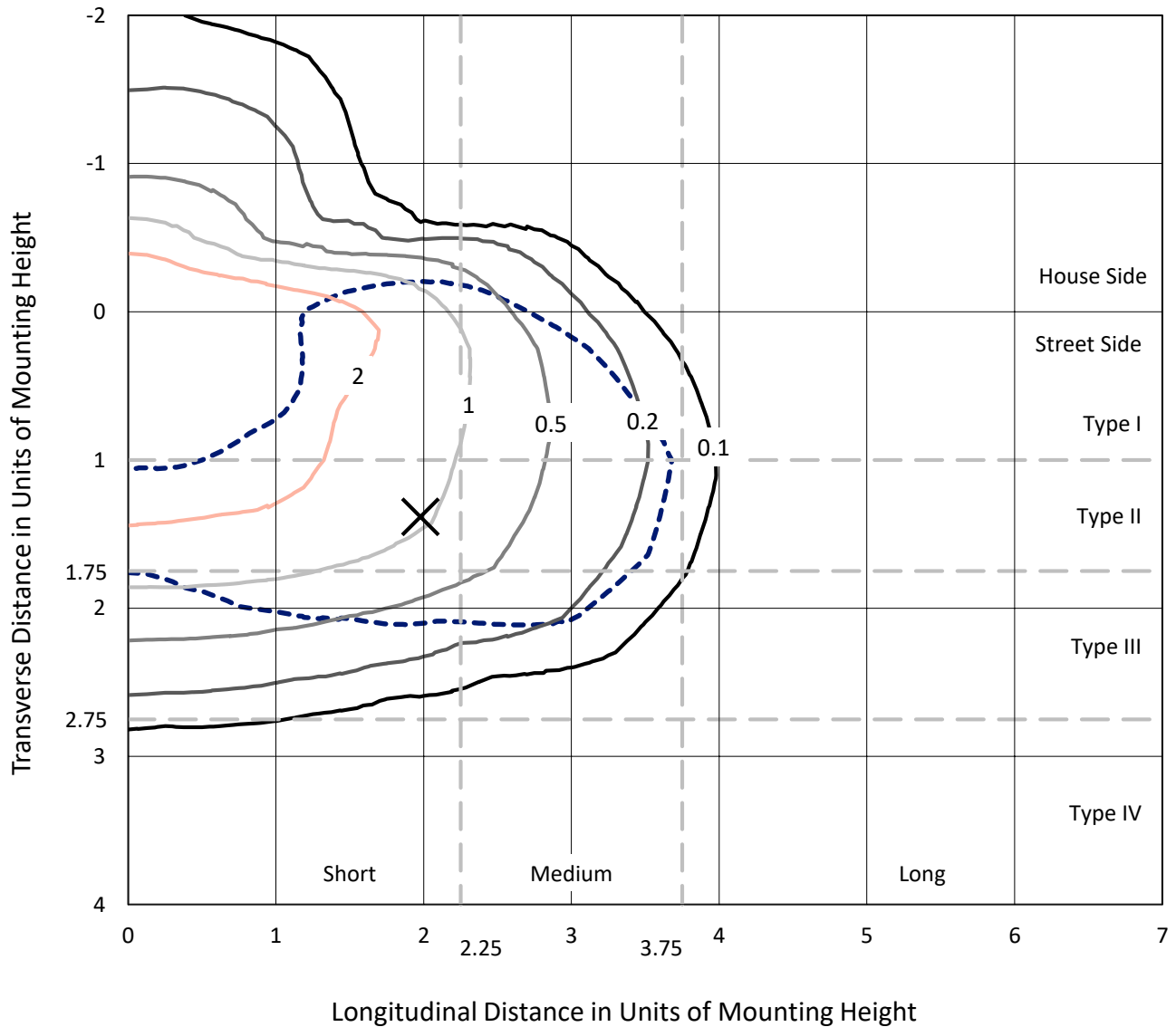


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Iso-Footcandle Lines of Horizontal Illumination

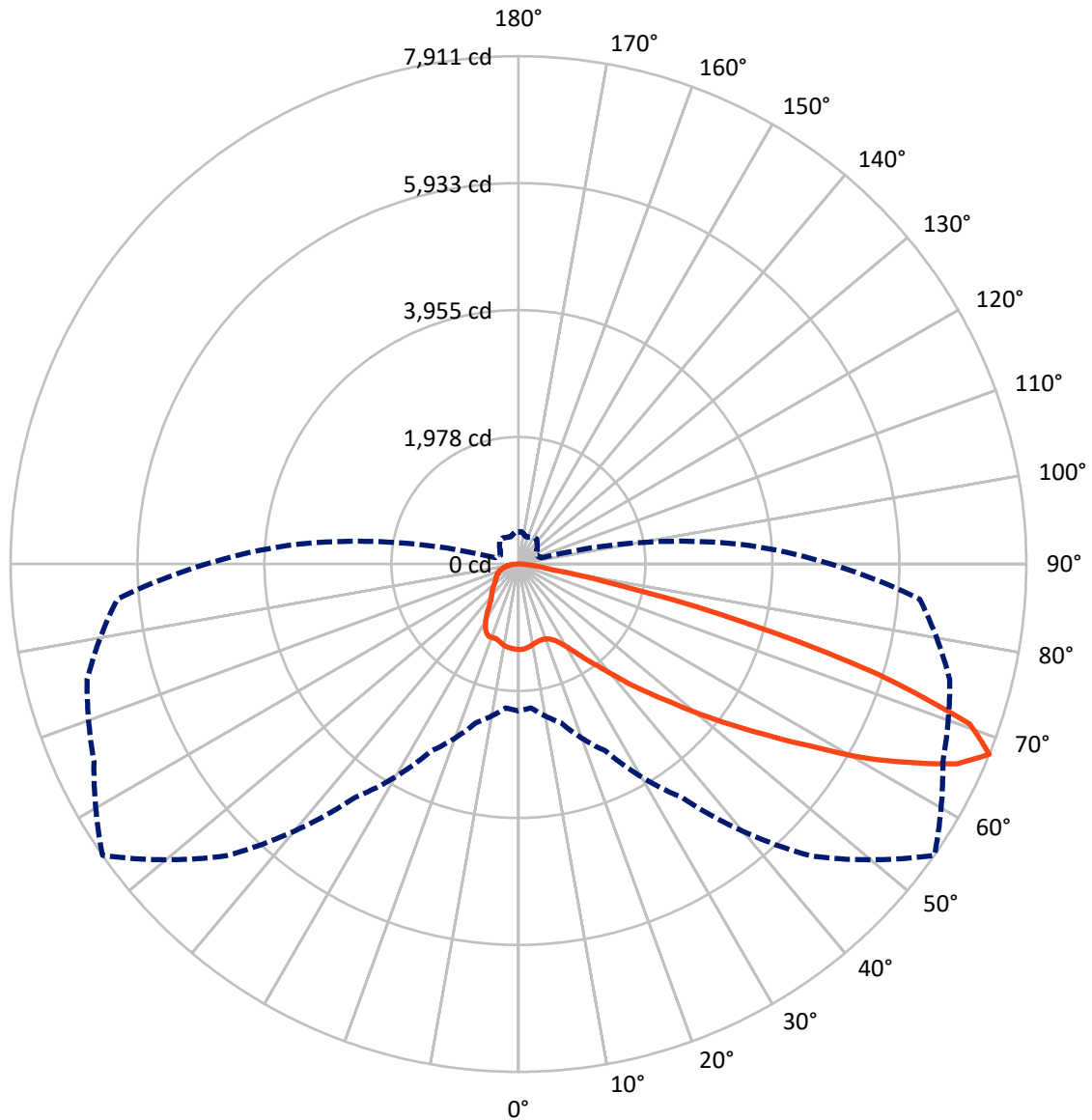
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2332.0	0.0	2332.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8463.3	0.0	8463.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	10795.3	0.0	10795.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.2
10°-20°	351.9	3.3
20°-30°	589.5	5.5
30°-40°	969.4	9.0
40°-50°	1631.7	15.1
50°-60°	2568.2	23.8
60°-70°	3064.9	28.4
70°-80°	1316.1	12.2
80°-90°	179.4	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°	10795.3	100.0
0°-180°	10795.3	100.0



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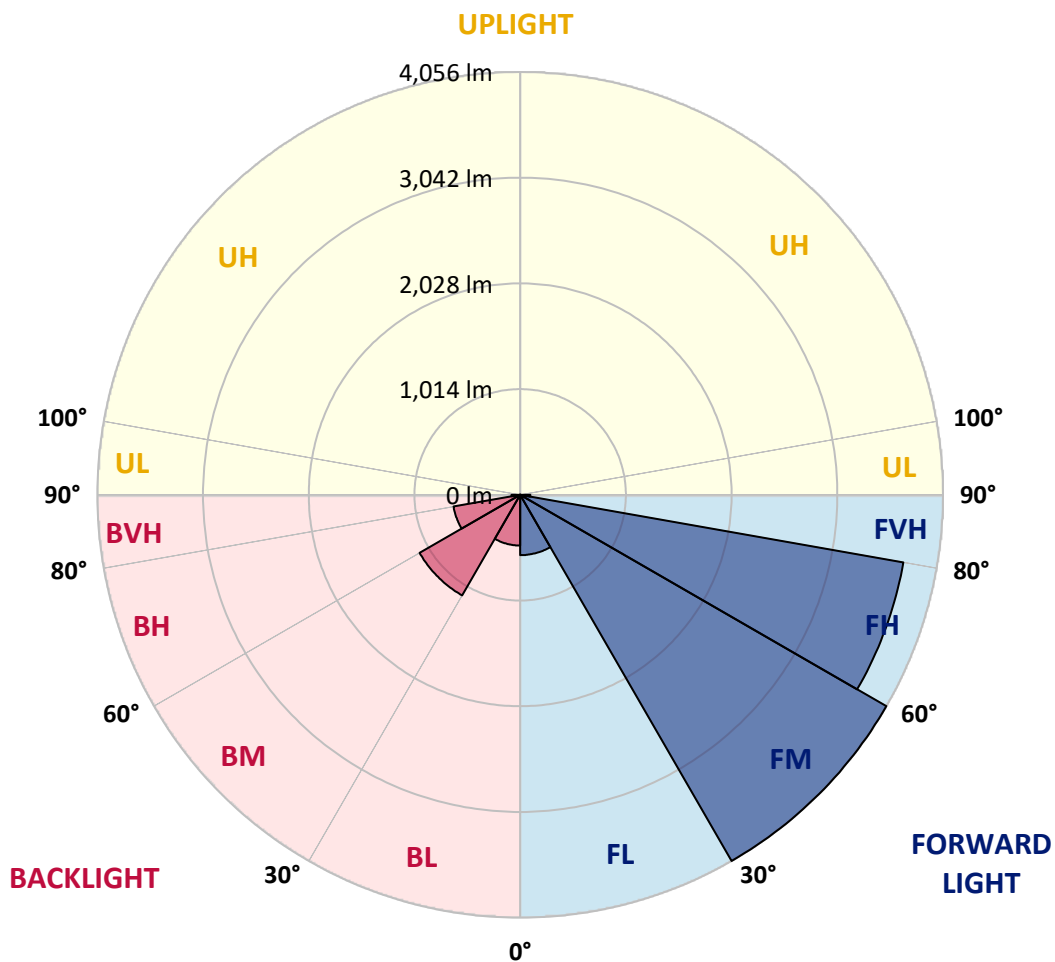
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.7	5.4			
FM	(30°-60°)	4055.5	37.6			
FH	(60°-80°)	3732.0	34.6			G2/5000
FVH	(80°-90°)	97.1	0.9			G1/100
BL	(0°-30°)	487.0	4.5	B1/500		
BM	(30°-60°)	1113.8	10.3	B2/2500		
BH	(60°-80°)	649.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	82.3	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°	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2
2.5°	1319.7	1320.1	1321.2	1325.4	1329.1	1328.1	1328.6	1326.4	1326.0	1322.8	1326.0
5°	1303.0	1304.6	1305.1	1311.9	1316.0	1317.2	1315.6	1313.0	1309.8	1306.7	1308.2
7.5°	1265.0	1269.1	1269.7	1279.0	1285.8	1294.6	1295.1	1295.7	1294.2	1292.1	1295.1
10°	1241.0	1242.0	1241.5	1248.3	1253.5	1263.3	1269.1	1279.0	1283.1	1284.2	1286.4
12.5°	1239.4	1238.4	1236.7	1236.7	1235.2	1239.4	1249.8	1263.9	1273.8	1276.9	1279.5
15°	1256.1	1255.7	1250.4	1242.5	1232.7	1229.5	1238.4	1254.0	1267.1	1273.8	1276.4
17.5°	1293.6	1290.5	1282.2	1264.5	1243.1	1234.7	1235.8	1248.9	1263.9	1272.8	1275.5
20°	1362.5	1362.5	1344.8	1311.3	1273.3	1253.5	1244.2	1251.9	1266.5	1278.5	1282.2
22.5°	1481.3	1482.5	1452.6	1397.9	1333.9	1291.6	1268.0	1266.5	1283.8	1297.3	1301.5
25°	1649.7	1645.5	1603.8	1525.7	1428.1	1358.2	1317.6	1308.2	1322.8	1337.9	1343.1
27.5°	1845.7	1830.7	1781.2	1686.7	1560.5	1458.4	1395.8	1380.8	1394.8	1412.0	1417.3
30°	2039.8	2024.2	1965.2	1861.9	1721.7	1592.4	1502.8	1478.3	1498.1	1522.5	1525.7
32.5°	2233.7	2233.7	2168.1	2047.5	1894.9	1752.6	1645.1	1616.0	1648.7	1678.5	1685.2
35°	2465.8	2466.8	2403.2	2258.2	2093.9	1943.4	1824.9	1803.5	1853.2	1874.0	1890.2
37.5°	2751.0	2756.8	2674.9	2499.7	2319.9	2161.3	2020.5	1991.4	2040.8	2097.6	2149.9
40°	3059.2	3066.5	2976.3	2760.4	2580.6	2414.6	2262.4	2209.8	2292.1	2400.6	2467.9
42.5°	3353.3	3390.8	3303.6	3081.5	2888.1	2716.6	2562.2	2485.6	2588.8	2752.5	2810.9
45°	3778.2	3805.3	3653.5	3452.2	3270.3	3078.4	2874.0	2793.2	2937.6	3144.2	3156.1
47.5°	4061.3	4040.9	3963.9	3838.6	3723.5	3544.1	3236.5	3147.8	3339.7	3582.7	3515.3
50°	4212.1	4218.4	4207.8	4215.1	4219.2	4106.7	3680.6	3559.3	3788.2	4081.7	3926.9
52.5°	4352.7	4311.1	4345.6	4516.5	4723.0	4681.2	4164.1	4037.3	4268.8	4635.4	4361.7
55°	4349.7	4286.1	4398.1	4700.0	5147.9	5195.9	4706.8	4560.9	4777.2	5229.4	4822.6
57.5°	4195.9	4198.9	4371.6	4766.8	5444.1	5679.9	5336.7	5117.7	5316.3	5831.0	5243.3
60°	3984.2	4012.8	4261.6	4755.8	5681.4	6076.7	6109.5	5717.9	5844.6	6378.0	5591.7
62.5°	3642.6	3672.9	4016.0	4642.3	5645.4	6458.9	6808.2	6398.8	6396.7	6709.6	5693.8
65°	3104.1	3095.1	3455.4	4217.3	5343.5	6741.4	7502.1	6987.6	6812.8	6714.8	5488.5
67.5°	2289.1	2249.4	2558.6	3211.9	4441.4	6424.9	7910.5	7294.1	6954.7	6273.1	4860.6
70°	1187.7	1148.2	1398.4	1875.5	2921.0	5014.5	7458.4	7135.5	6641.3	5258.5	3807.9
72.5°	507.8	501.1	602.8	822.8	1413.0	2892.4	5848.2	6176.1	5698.6	3918.0	2618.0
75°	341.5	339.4	377.5	448.4	635.6	1173.7	3659.9	4384.1	4169.3	2429.2	1472.5
77.5°	268.1	265.4	287.8	322.2	412.0	463.0	1624.2	2353.6	2178.5	1057.5	644.4
80°	209.7	207.5	221.6	240.3	296.3	291.9	534.4	936.5	724.8	405.1	313.4
82.5°	165.3	165.3	176.7	177.2	210.2	199.2	279.0	412.4	361.8	236.3	191.9
85°	151.3	151.3	163.2	132.4	137.1	125.7	173.2	244.6	229.4	96.9	83.5
87.5°	76.1	74.0	137.1	117.3	74.6	66.7	84.5	118.3	127.2	53.7	41.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2	1331.2
2.5°	1324.9	1324.5	1325.4	1326.0	1330.1	1335.9	1338.5	1342.2	1344.3	1343.1
5°	1309.3	1310.3	1314.5	1317.6	1324.9	1334.3	1339.6	1343.7	1347.4	1345.8
7.5°	1296.3	1298.9	1305.1	1307.8	1311.9	1314.5	1314.0	1315.6	1318.6	1314.9
10°	1289.0	1292.1	1296.8	1293.1	1283.1	1269.1	1256.1	1249.4	1251.3	1248.9
12.5°	1281.6	1285.8	1282.2	1265.0	1237.3	1219.1	1209.2	1210.1	1214.9	1215.9
15°	1277.5	1279.0	1263.3	1231.0	1202.9	1200.3	1205.5	1204.4	1204.9	1204.9
17.5°	1277.5	1273.3	1244.2	1211.8	1199.7	1195.0	1178.9	1158.6	1149.7	1146.5
20°	1284.2	1273.3	1237.9	1216.5	1190.4	1150.3	1107.5	1069.9	1053.3	1048.6
22.5°	1304.6	1285.8	1255.7	1218.6	1144.5	1077.2	1009.4	964.6	934.3	929.1
25°	1345.8	1324.9	1290.5	1191.0	1071.5	975.6	898.5	848.4	818.0	814.0
27.5°	1417.7	1404.2	1309.3	1129.9	974.5	871.9	800.4	761.9	739.3	737.8
30°	1526.2	1519.5	1299.8	1039.7	855.1	771.1	736.8	714.3	697.7	697.2
32.5°	1699.4	1644.5	1269.1	929.7	746.1	699.7	685.6	672.1	659.0	659.0
35°	1922.0	1745.6	1210.7	811.9	679.9	660.2	642.4	621.0	603.8	602.8
37.5°	2183.7	1808.3	1106.0	716.9	648.7	633.6	607.4	575.6	545.5	540.2
40°	2448.1	1827.1	958.3	658.5	628.9	607.0	575.2	537.5	508.4	506.9
42.5°	2690.6	1791.1	801.9	618.5	609.1	579.9	546.4	513.1	490.1	489.5
45°	2893.9	1697.7	670.6	580.3	588.2	555.3	525.6	498.5	480.8	477.1
47.5°	3085.1	1565.8	578.2	540.2	567.3	541.8	516.7	491.2	473.9	471.4
50°	3307.4	1423.5	513.7	501.1	549.0	537.0	524.0	497.4	468.7	465.6
52.5°	3576.4	1300.4	463.0	466.7	535.0	543.4	542.8	515.2	465.1	460.9
55°	3876.7	1163.8	425.0	438.6	529.2	554.9	547.4	531.8	468.2	462.0
57.5°	4172.4	1004.2	398.4	417.2	520.8	553.7	525.1	502.6	475.6	466.7
60°	4394.0	790.0	378.0	398.4	502.6	536.6	500.5	470.8	473.9	467.2
62.5°	4408.6	610.6	353.6	382.1	475.1	519.3	484.4	456.8	480.8	474.5
65°	4149.5	461.5	330.0	362.9	445.3	508.4	468.7	449.0	494.8	488.0
67.5°	3493.5	371.3	310.3	343.2	415.6	485.4	454.7	441.6	507.4	495.3
70°	2522.1	316.6	291.0	319.1	389.0	459.4	442.1	428.6	473.4	454.7
72.5°	1552.8	274.3	269.0	287.3	368.7	432.3	423.5	404.1	426.5	411.5
75°	775.3	237.8	244.6	255.9	340.0	401.5	392.1	372.7	375.9	372.7
77.5°	371.3	203.3	215.9	224.8	303.0	366.6	356.6	336.9	333.2	333.7
80°	235.1	170.0	181.9	188.3	270.6	325.8	315.9	296.3	337.9	313.4
82.5°	147.1	138.2	141.4	152.8	235.6	283.7	270.6	253.0	304.5	240.8
85°	81.3	96.5	100.6	110.5	181.5	237.2	224.1	201.8	180.9	177.9
87.5°	48.5	57.3	58.8	66.3	122.0	171.5	151.8	143.9	119.5	118.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)