

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: P200038

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9756.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

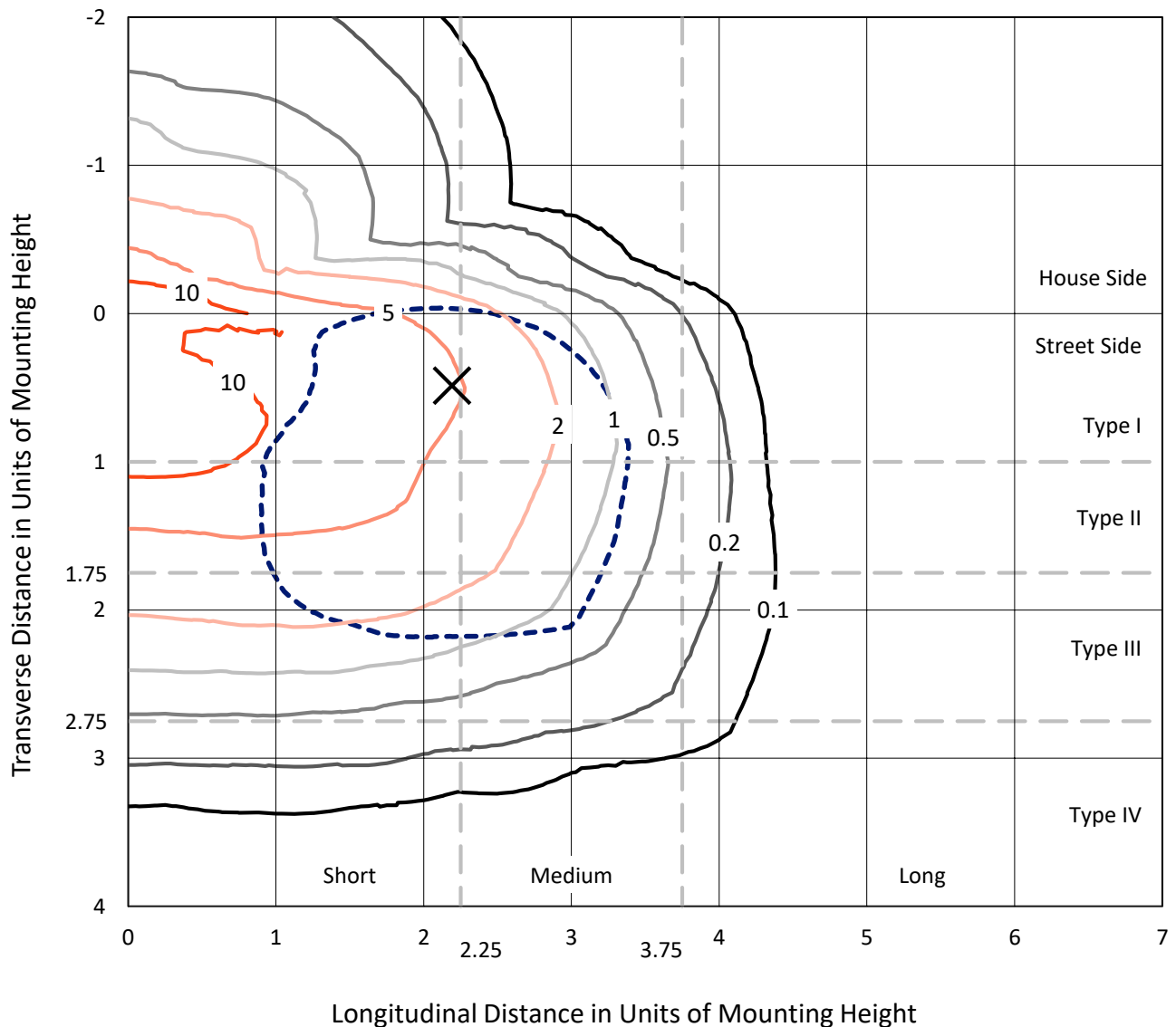
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

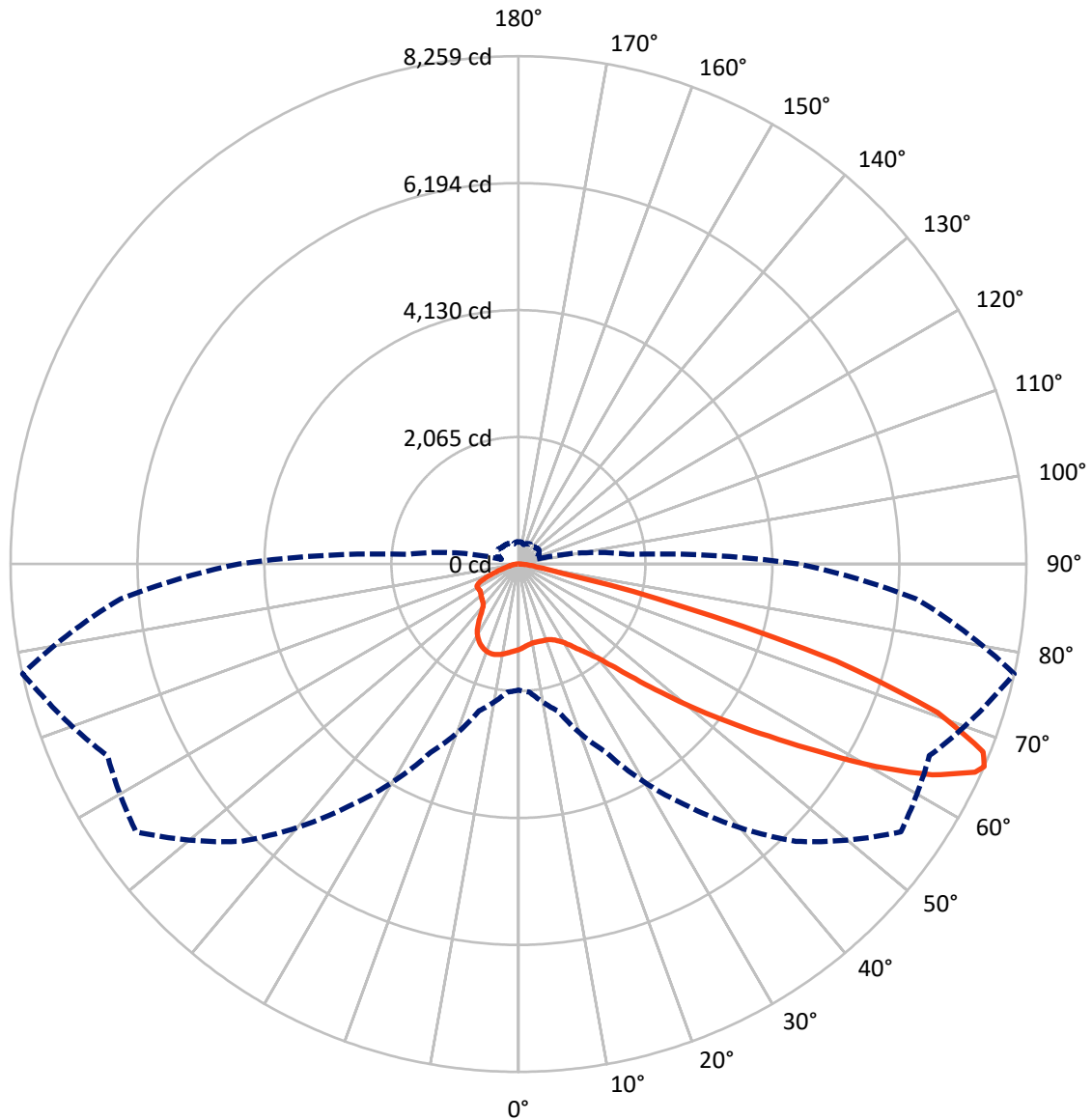
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1666.9	0.0	1666.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8090.0	0.0	8090.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	9756.9	0.0	9756.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.3
10°-20°	350.4	3.6
20°-30°	598.1	6.1
30°-40°	957.4	9.8
40°-50°	1479.2	15.2
50°-60°	2097.9	21.5
60°-70°	2806.5	28.8
70°-80°	1218.8	12.5
80°-90°	124.3	1.3
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°	9756.9	100.0
0°-180°	9756.9	100.0



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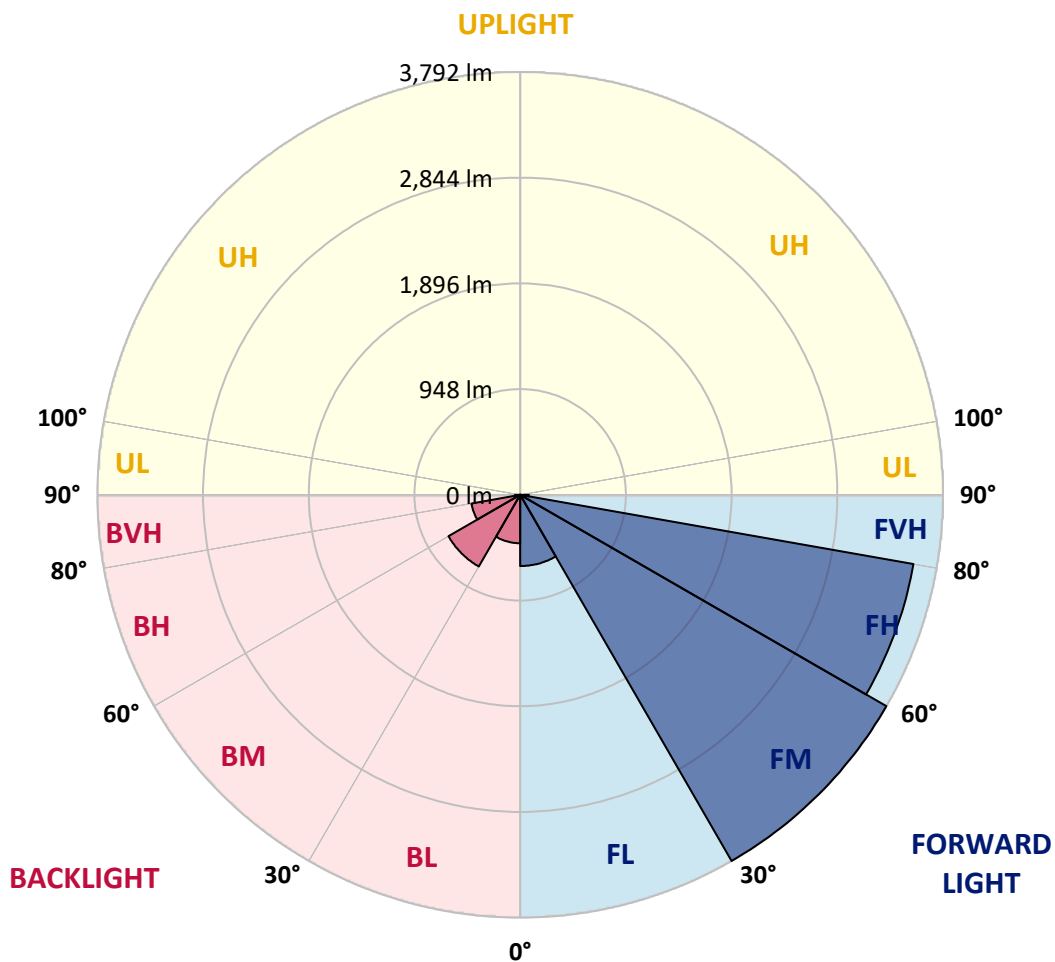
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	638.6	6.5			
FM	(30°-60°)	3792.0	38.9			
FH	(60°-80°)	3581.4	36.7			G2/5000
FVH	(80°-90°)	77.9	0.8			G1/100
BL	(0°-30°)	434.1	4.4	B1/500		
BM	(30°-60°)	742.5	7.6	B1/1000		
BH	(60°-80°)	443.9	4.5	B1/500		G1/500
BVH	(80°-90°)	46.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1229.9	1238.3	1245.2	1251.6	1264.5	1285.8	1310.2	1330.0	1358.6	1364.1	1379.3
5°	1117.0	1117.0	1122.5	1132.3	1149.8	1181.6	1214.8	1259.0	1321.2	1336.0	1376.5
7.5°	1062.2	1062.6	1065.8	1074.2	1089.3	1118.4	1154.8	1206.9	1291.3	1315.7	1384.9
10°	1082.5	1077.8	1071.0	1066.8	1069.1	1086.1	1120.7	1178.8	1272.9	1304.1	1403.3
12.5°	1195.9	1187.1	1163.1	1131.3	1100.9	1088.5	1108.8	1165.5	1265.0	1301.5	1427.8
15°	1381.2	1377.5	1332.8	1266.9	1193.1	1131.3	1117.5	1160.3	1265.9	1304.7	1456.8
17.5°	1613.6	1608.4	1549.5	1453.5	1333.2	1213.0	1148.4	1164.5	1269.1	1310.2	1484.9
20°	1848.2	1832.5	1768.9	1654.6	1500.2	1324.0	1199.5	1175.1	1273.3	1316.2	1514.4
22.5°	2023.3	2010.5	1953.3	1842.1	1664.3	1452.7	1268.3	1193.5	1286.6	1333.7	1550.9
25°	2177.4	2178.2	2121.5	2014.1	1830.2	1589.1	1356.8	1242.9	1320.8	1369.7	1600.6
27.5°	2367.7	2356.6	2303.7	2197.1	1994.3	1726.9	1463.7	1310.7	1371.5	1420.8	1666.1
30°	2595.5	2587.7	2526.3	2405.5	2176.4	1874.9	1585.9	1389.5	1437.0	1488.1	1751.8
32.5°	2863.4	2859.6	2796.0	2640.6	2386.6	2049.2	1729.3	1493.7	1534.7	1587.7	1874.9
35°	3177.8	3178.2	3103.0	2916.3	2616.7	2252.0	1892.0	1627.9	1653.6	1709.0	2021.5
37.5°	3371.4	3394.8	3366.8	3176.4	2877.1	2478.9	2103.1	1805.7	1789.2	1844.9	2178.8
40°	3412.9	3441.4	3530.4	3433.6	3168.5	2728.7	2290.2	1976.8	1956.1	2024.3	2381.1
42.5°	3354.8	3394.4	3582.5	3650.8	3477.9	3036.6	2542.0	2230.9	2204.5	2296.3	2632.8
45°	3320.2	3349.7	3567.3	3763.7	3746.2	3384.7	2862.4	2549.9	2540.2	2660.5	2923.3
47.5°	3260.2	3287.0	3496.3	3790.0	3903.8	3703.7	3247.4	2939.8	2958.8	3116.4	3251.0
50°	3292.6	3303.6	3417.0	3723.1	3949.5	3937.4	3677.5	3391.6	3456.2	3653.0	3622.1
52.5°	3288.0	3316.5	3407.8	3613.4	3955.5	4081.8	4101.1	3895.6	4031.5	4257.4	4033.8
55°	2658.2	2710.7	3299.4	3585.7	3976.7	4223.3	4478.2	4426.6	4680.2	4943.4	4498.5
57.5°	2538.4	2571.5	2897.9	3643.8	4089.1	4493.5	4897.8	5011.2	5435.2	5740.9	5064.7
60°	2514.8	2555.9	2893.8	3714.8	4317.3	4933.8	5519.7	5718.8	6354.1	6688.8	5721.2
62.5°	2441.5	2485.7	2866.6	3705.6	4641.4	5542.8	6315.8	6471.2	7225.4	7550.8	6270.2
65°	2209.2	2250.6	2644.8	3556.7	4860.0	6192.7	7258.2	7160.9	7913.2	8158.0	6544.0
66°	2050.1	2090.7	2470.0	3381.5	4809.3	6377.1	7591.9	7374.3	8067.2	8259.0	6490.5
67.5°	1759.2	1791.0	2130.7	2989.1	4539.6	6428.8	7872.6	7534.7	8083.4	8151.1	6184.9
70°	1111.5	1120.7	1384.9	2063.5	3436.4	5575.4	7445.3	7136.5	7416.7	7233.2	5185.0
72.5°	482.3	479.0	664.7	1049.7	1945.5	3741.1	6022.7	5888.5	5817.9	5399.4	3629.5
75°	268.3	272.0	345.3	487.3	790.6	1837.6	3939.8	3770.1	3183.2	2716.2	1645.8
77.5°	215.2	220.4	286.2	345.7	355.0	640.8	1843.5	1500.2	903.1	724.7	457.3
80°	170.1	179.4	249.8	269.3	239.3	264.1	595.6	476.2	357.2	327.8	236.9
82.5°	134.6	141.0	214.4	203.8	167.3	178.0	285.4	278.0	232.3	211.6	136.9
85°	96.8	108.8	176.1	153.5	109.8	119.9	189.5	181.6	133.2	108.8	60.4
87.5°	39.6	51.7	124.5	101.9	61.3	55.7	94.5	88.9	63.2	46.1	30.0
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°	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1389.0	1400.1	1414.3	1423.1	1427.8	1431.0	1436.0	1435.6	1437.0	1437.4	1439.3
5°	1398.2	1416.7	1437.4	1442.9	1442.9	1437.9	1432.8	1424.5	1421.3	1420.4	1421.3
7.5°	1422.2	1442.5	1460.5	1454.0	1440.2	1419.9	1393.6	1370.6	1358.2	1354.0	1353.0
10°	1452.7	1477.1	1484.5	1460.0	1419.5	1370.6	1318.5	1280.7	1259.0	1253.0	1251.2
12.5°	1489.5	1512.6	1502.4	1450.8	1375.7	1296.8	1224.9	1164.5	1119.3	1105.0	1104.1
15°	1530.1	1548.1	1512.6	1422.2	1310.2	1194.0	1065.8	961.6	905.4	887.4	886.1
17.5°	1567.9	1577.1	1506.6	1372.5	1213.8	1025.7	855.6	775.4	756.0	760.7	761.6
20°	1600.2	1600.2	1486.3	1300.9	1062.2	804.1	696.5	695.2	709.0	722.9	725.6
22.5°	1635.7	1614.4	1450.8	1200.0	847.3	657.9	642.2	655.1	670.8	686.0	688.3
25°	1679.4	1625.9	1401.5	1046.9	666.1	597.5	603.4	614.0	621.9	631.6	633.0
27.5°	1728.3	1640.8	1336.5	836.3	578.1	559.7	564.3	568.0	567.0	570.8	571.6
30°	1786.8	1657.8	1247.5	653.7	541.7	527.4	519.1	515.9	515.9	521.9	524.1
32.5°	1865.2	1683.2	1119.8	560.1	524.1	504.4	477.6	465.6	470.2	490.5	495.1
35°	1951.5	1710.4	946.9	528.3	520.5	493.8	452.3	430.2	430.6	449.5	455.5
37.5°	2045.5	1744.9	757.4	522.3	528.8	494.2	438.9	408.5	396.0	396.0	398.3
40°	2165.9	1780.4	613.2	526.5	546.3	499.8	432.0	391.4	356.4	357.2	359.2
42.5°	2322.6	1810.9	535.6	535.2	567.5	507.1	431.5	368.8	338.3	359.2	378.1
45°	2496.8	1826.0	501.6	543.1	584.5	511.7	424.2	365.1	340.7	402.5	438.4
47.5°	2697.3	1817.3	482.7	545.8	588.7	511.7	415.9	373.9	356.8	466.0	508.0
50°	2917.3	1792.0	464.2	540.3	587.3	510.8	423.6	382.6	362.8	477.1	506.2
52.5°	3175.9	1770.7	444.9	528.3	577.6	505.7	432.9	378.9	343.9	433.8	454.1
55°	3471.0	1776.7	423.2	511.3	562.4	496.0	429.6	364.2	324.0	382.2	394.6
57.5°	3848.1	1848.2	397.4	489.6	541.7	479.9	418.1	357.2	318.1	346.7	354.0
60°	4268.9	1972.6	365.1	468.0	515.9	454.1	409.3	360.5	320.8	343.9	347.6
62.5°	4577.8	2045.0	337.5	436.1	480.9	425.5	398.3	364.6	328.2	353.6	352.6
65°	4661.7	1926.1	302.9	389.6	433.4	395.6	384.5	369.3	331.5	361.4	357.2
66°	4544.2	1797.9	287.6	367.9	409.3	380.8	377.5	368.8	330.1	362.4	355.4
67.5°	4258.8	1535.2	261.4	336.1	371.1	358.6	366.5	364.6	326.4	361.4	351.8
70°	3473.2	1047.4	223.6	279.8	308.9	315.8	345.3	349.9	314.4	345.3	324.0
72.5°	2426.8	638.0	197.7	217.2	249.8	269.3	316.2	329.6	298.3	301.5	281.2
75°	1172.8	338.9	179.4	168.3	194.1	225.0	281.2	301.9	272.9	252.2	244.8
77.5°	365.6	207.0	152.1	135.5	152.1	181.6	235.1	264.7	243.0	211.2	208.4
80°	196.3	152.1	117.1	108.8	120.3	142.4	184.8	220.8	208.8	189.5	169.2
82.5°	129.5	98.7	86.7	84.3	91.7	108.8	137.4	183.0	183.0	162.3	118.0
85°	66.8	60.4	59.5	59.5	64.1	72.4	93.6	141.0	150.3	85.7	71.0
87.5°	33.2	34.6	32.2	33.6	36.0	35.4	44.7	71.0	84.9	52.1	43.3
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)