

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: P270108

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270108
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-01-LED-E1-T3R-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6089.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

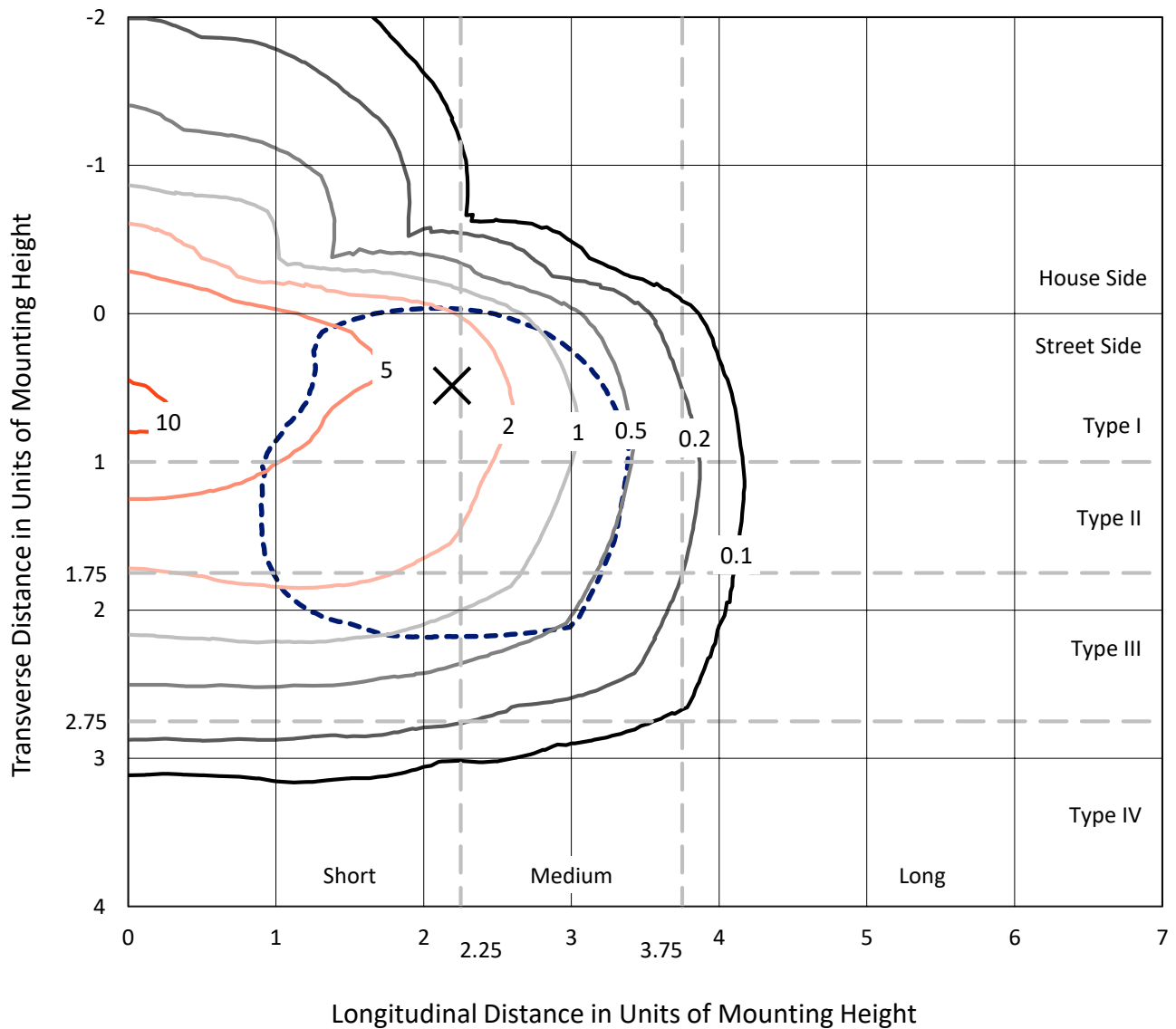
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

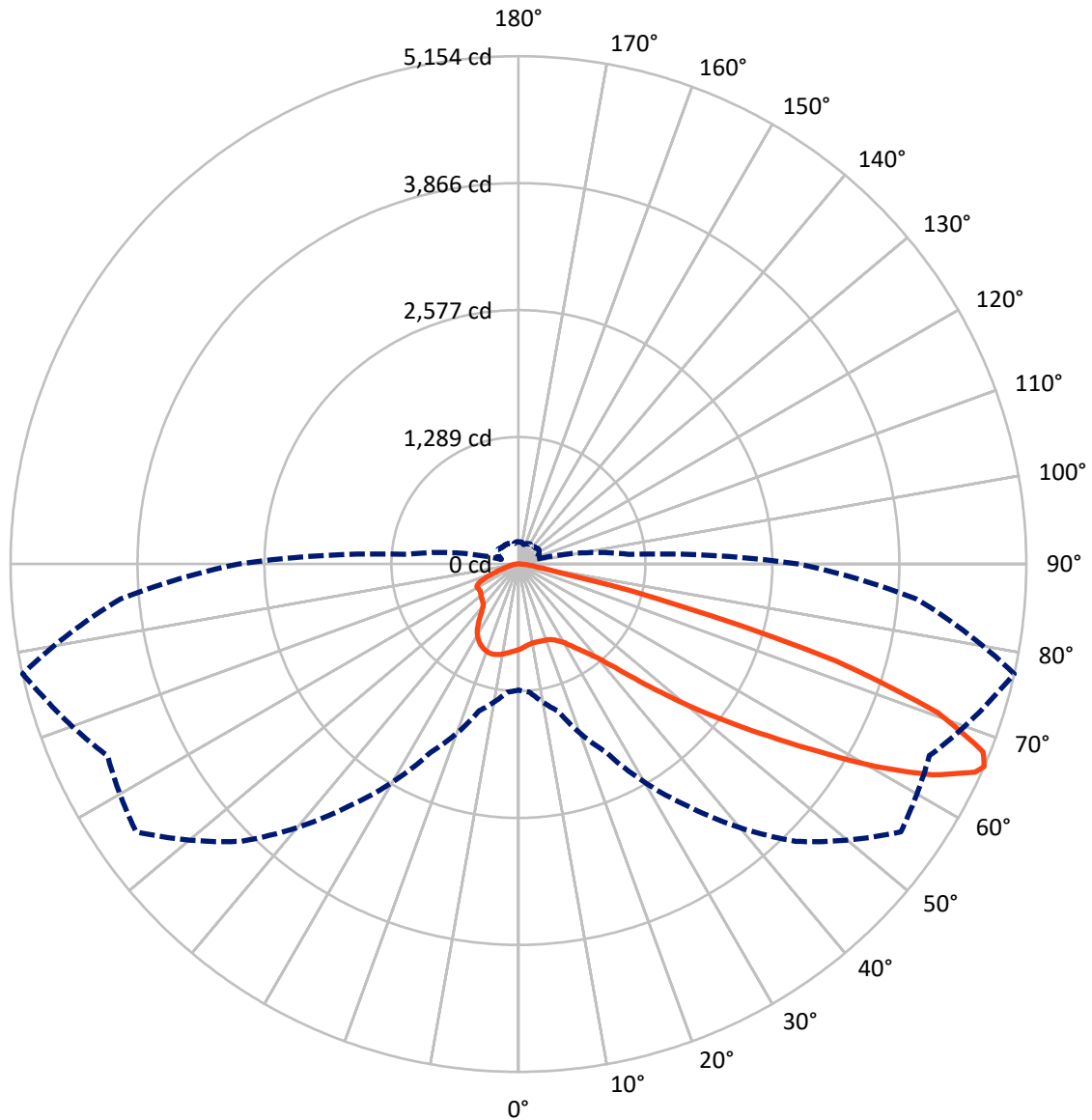
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	1040.3	0.0	1040.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5048.9	0.0	5048.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	6089.2	0.0	6089.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.3
10°-20°	218.7	3.6
20°-30°	373.3	6.1
30°-40°	597.5	9.8
40°-50°	923.1	15.2
50°-60°	1309.3	21.5
60°-70°	1751.5	28.8
70°-80°	760.6	12.5
80°-90°	77.6	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°	6089.2	100.0
0°-180°	6089.2	100.0



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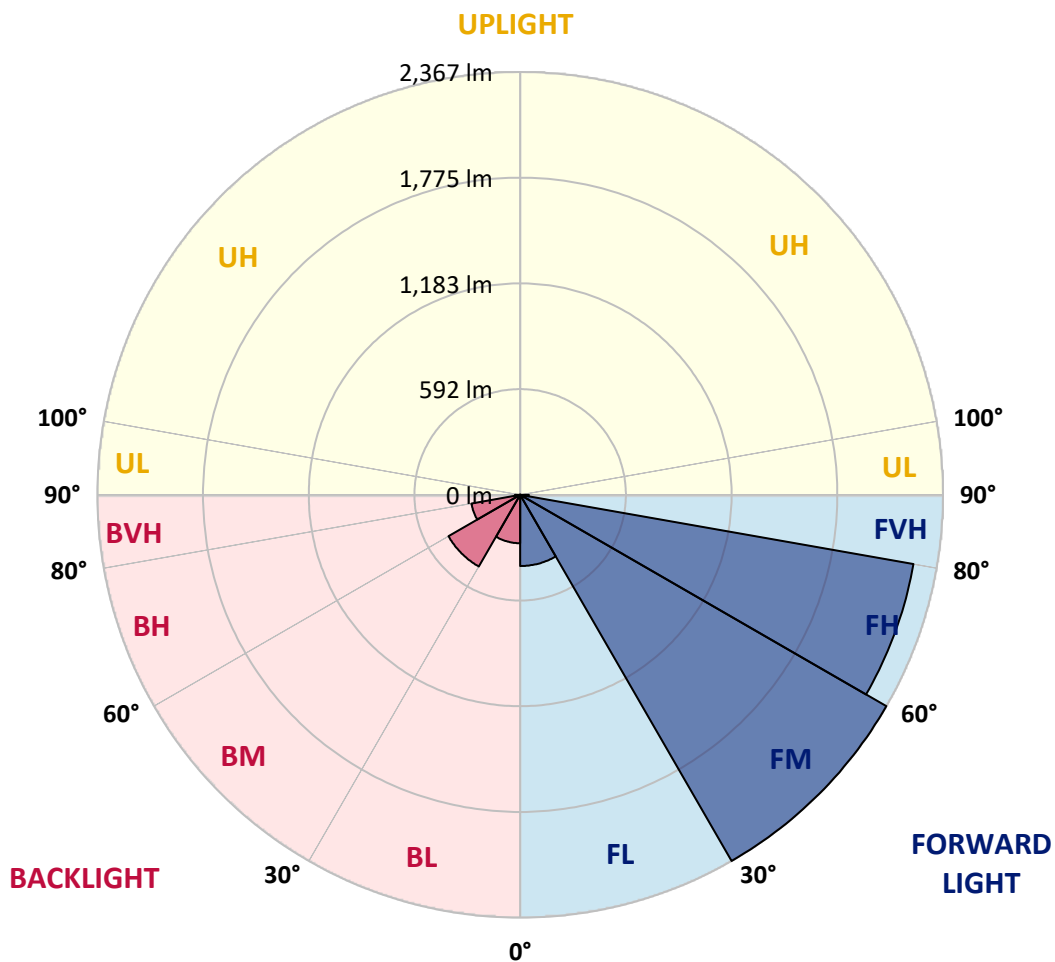
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.6	6.5			
FM	(30°-60°)	2366.6	38.9			
FH	(60°-80°)	2235.1	36.7			G2/5000
FVH	(80°-90°)	48.6	0.8			G1/100
BL	(0°-30°)	270.9	4.4	B1/500		
BM	(30°-60°)	463.4	7.6	B1/1000		
BH	(60°-80°)	277.0	4.5	B1/500		G1/500
BVH	(80°-90°)	28.9	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°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	767.6	772.7	777.1	781.2	789.2	802.5	817.7	830.0	847.9	851.4	860.8
5°	697.1	697.1	700.6	706.7	717.6	737.4	758.1	785.7	824.6	833.8	859.1
7.5°	662.9	663.1	665.2	670.4	679.8	698.0	720.7	753.2	805.9	821.1	864.3
10°	675.6	672.7	668.3	665.7	667.2	677.8	699.4	735.7	794.4	814.0	875.8
12.5°	746.3	740.8	725.8	706.1	687.0	679.2	692.0	727.3	789.4	812.2	891.0
15°	862.0	859.7	831.8	790.6	744.6	706.1	697.4	724.1	790.1	814.2	909.2
17.5°	1007.0	1003.9	966.9	907.1	832.1	756.9	716.7	726.7	792.0	817.7	926.7
20°	1153.5	1143.6	1104.0	1032.6	936.2	826.3	748.6	733.4	794.6	821.4	945.2
22.5°	1262.7	1254.7	1219.0	1149.7	1038.6	906.6	791.5	744.9	803.1	832.4	967.8
25°	1358.9	1359.5	1324.1	1257.0	1142.2	991.7	846.7	775.6	824.3	854.7	998.9
27.5°	1477.6	1470.8	1437.7	1371.3	1244.7	1077.7	913.5	818.0	855.9	886.7	1039.8
30°	1619.8	1615.0	1576.6	1501.3	1358.3	1170.0	989.8	867.2	896.9	928.8	1093.2
32.5°	1787.0	1784.7	1745.0	1647.9	1489.4	1278.9	1079.2	932.2	957.8	990.9	1170.0
35°	1983.2	1983.5	1936.6	1820.1	1633.0	1405.5	1180.8	1015.9	1032.0	1066.6	1261.7
37.5°	2104.0	2118.7	2101.1	1982.3	1795.6	1547.1	1312.6	1126.9	1116.6	1151.4	1359.8
40°	2129.9	2147.8	2203.4	2142.8	1977.4	1702.9	1429.3	1233.6	1220.7	1263.4	1486.1
42.5°	2093.6	2118.4	2235.9	2278.4	2170.5	1895.2	1586.4	1392.3	1375.8	1433.1	1643.1
45°	2072.1	2090.5	2226.3	2348.8	2337.9	2112.4	1786.4	1591.3	1585.2	1660.4	1824.4
47.5°	2034.7	2051.4	2182.0	2365.2	2436.3	2311.5	2026.7	1834.8	1846.6	1944.9	2029.0
50°	2054.9	2061.7	2132.5	2323.6	2464.8	2457.4	2295.1	2116.7	2156.9	2279.8	2260.5
52.5°	2051.9	2069.8	2126.7	2255.0	2468.5	2547.4	2559.5	2431.1	2516.1	2657.0	2517.5
55°	1659.0	1691.8	2059.2	2237.8	2481.7	2635.6	2794.8	2762.6	2920.7	3085.1	2807.5
57.5°	1584.1	1604.8	1808.5	2274.1	2552.0	2804.3	3056.7	3127.4	3392.1	3582.9	3160.8
60°	1569.4	1595.1	1806.0	2318.3	2694.5	3079.1	3444.8	3569.1	3965.5	4174.4	3570.5
62.5°	1523.7	1551.4	1789.0	2312.6	2896.7	3459.2	3941.6	4038.6	4509.3	4712.4	3913.1
65°	1378.6	1404.6	1650.5	2219.7	3033.0	3864.8	4529.7	4469.0	4938.5	5091.3	4084.0
66°	1279.5	1304.8	1541.5	2110.3	3001.3	3979.9	4737.9	4602.2	5034.6	5154.3	4050.6
67.5°	1097.9	1117.8	1329.8	1865.5	2833.1	4012.1	4913.2	4702.4	5044.7	5086.9	3859.8
70°	693.7	699.4	864.3	1287.8	2144.5	3479.5	4646.5	4453.7	4628.7	4514.2	3235.9
72.5°	300.9	298.9	414.9	655.1	1214.1	2334.7	3758.7	3674.9	3630.9	3369.6	2265.2
75°	167.4	169.7	215.4	304.1	493.4	1146.8	2458.8	2352.8	1986.6	1695.1	1027.1
77.5°	134.4	137.5	178.7	215.8	221.5	399.9	1150.5	936.2	563.7	452.3	285.4
80°	106.1	111.9	155.9	168.0	149.4	164.9	371.7	297.2	223.0	204.5	148.0
82.5°	84.1	88.0	133.8	127.2	104.4	111.0	178.1	173.5	145.0	132.1	85.5
85°	60.4	67.9	109.9	95.8	68.5	74.7	118.3	113.4	83.2	67.9	37.7
87.5°	24.7	32.2	77.7	63.6	38.3	34.9	58.9	55.6	39.4	28.7	18.7
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°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
2.5°	867.0	873.8	882.8	888.2	891.0	893.1	896.2	896.0	896.9	897.1	898.3
5°	872.6	884.1	897.1	900.5	900.5	897.4	894.3	889.1	887.0	886.4	887.0
7.5°	887.5	900.2	911.5	907.5	898.8	886.1	869.7	855.4	847.6	845.0	844.4
10°	906.6	921.8	926.4	911.2	885.8	855.4	822.8	799.3	785.7	782.0	780.8
12.5°	929.7	944.0	937.7	905.4	858.5	809.3	764.5	726.7	698.5	689.6	689.1
15°	954.9	966.1	944.0	887.5	817.7	745.1	665.2	600.2	565.0	553.8	553.0
17.5°	978.5	984.3	940.3	856.5	757.5	640.1	534.0	484.0	471.8	474.7	475.3
20°	998.6	998.6	927.6	811.9	662.9	501.7	434.8	433.9	442.5	451.1	452.9
22.5°	1020.8	1007.6	905.4	748.9	528.8	410.5	400.8	408.8	418.6	428.1	429.6
25°	1048.1	1014.7	874.6	653.4	415.7	372.9	376.6	383.2	388.2	394.2	395.0
27.5°	1078.6	1024.0	834.1	521.9	360.8	349.3	352.1	354.5	353.9	356.2	356.8
30°	1115.2	1034.6	778.6	407.9	338.1	329.1	324.0	322.0	322.0	325.7	327.1
32.5°	1164.1	1050.4	698.9	349.5	327.1	314.8	298.1	290.6	293.5	306.1	309.0
35°	1217.8	1067.4	591.0	329.7	324.8	308.2	282.2	268.4	268.7	280.5	284.2
37.5°	1276.6	1089.0	472.7	326.0	329.9	308.5	273.9	254.9	247.1	247.1	248.6
40°	1351.7	1111.1	382.7	328.5	341.0	311.8	269.6	244.3	222.4	223.0	224.1
42.5°	1449.5	1130.2	334.3	334.0	354.2	316.5	269.3	230.2	211.2	224.1	235.9
45°	1558.2	1139.6	313.0	338.9	364.8	319.3	264.6	227.9	212.6	251.2	273.6
47.5°	1683.3	1134.2	301.2	340.7	367.4	319.3	259.5	233.3	222.7	290.9	317.0
50°	1820.7	1118.4	289.7	337.2	366.5	318.8	264.4	238.8	226.5	297.8	315.9
52.5°	1982.0	1105.1	277.7	329.7	360.5	315.6	270.1	236.5	214.7	270.7	283.4
55°	2166.2	1108.8	264.1	319.1	351.0	309.6	268.1	227.4	202.2	238.5	246.3
57.5°	2401.5	1153.5	247.9	305.6	338.1	299.5	261.0	223.0	198.5	216.3	221.0
60°	2664.2	1231.1	227.9	292.0	322.0	283.4	255.5	225.0	200.2	214.7	216.9
62.5°	2856.9	1276.3	210.7	272.2	300.0	265.5	248.6	227.6	204.8	220.6	220.1
65°	2909.3	1202.0	189.0	243.2	270.5	246.8	239.9	230.5	206.9	225.6	223.0
66°	2835.9	1122.0	179.6	229.6	255.5	237.6	235.6	230.2	206.0	226.2	221.8
67.5°	2657.9	958.1	163.1	209.8	231.6	223.9	228.8	227.6	203.6	225.6	219.5
70°	2167.6	653.7	139.5	174.6	192.8	197.1	215.4	218.4	196.3	215.4	202.2
72.5°	1514.5	398.2	123.4	135.5	155.9	168.0	197.4	205.7	186.1	188.1	175.5
75°	731.9	211.5	111.9	105.0	121.1	140.4	175.5	188.5	170.3	157.4	152.7
77.5°	228.2	129.2	95.0	84.6	95.0	113.4	146.8	165.2	151.5	131.8	130.1
80°	122.5	95.0	73.0	67.9	75.1	88.8	115.4	137.8	130.3	118.3	105.6
82.5°	80.8	61.5	54.2	52.6	57.2	67.9	85.8	114.3	114.3	101.3	73.7
85°	41.7	37.7	37.2	37.2	40.0	45.2	58.4	88.0	93.8	53.5	44.3
87.5°	20.8	21.6	20.1	21.0	22.5	22.2	27.8	44.3	53.0	32.5	27.0
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)