

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: P200037

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200037
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-7030-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4992.3 lumens
Efficiency: N/A
Efficacy: 113.5 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

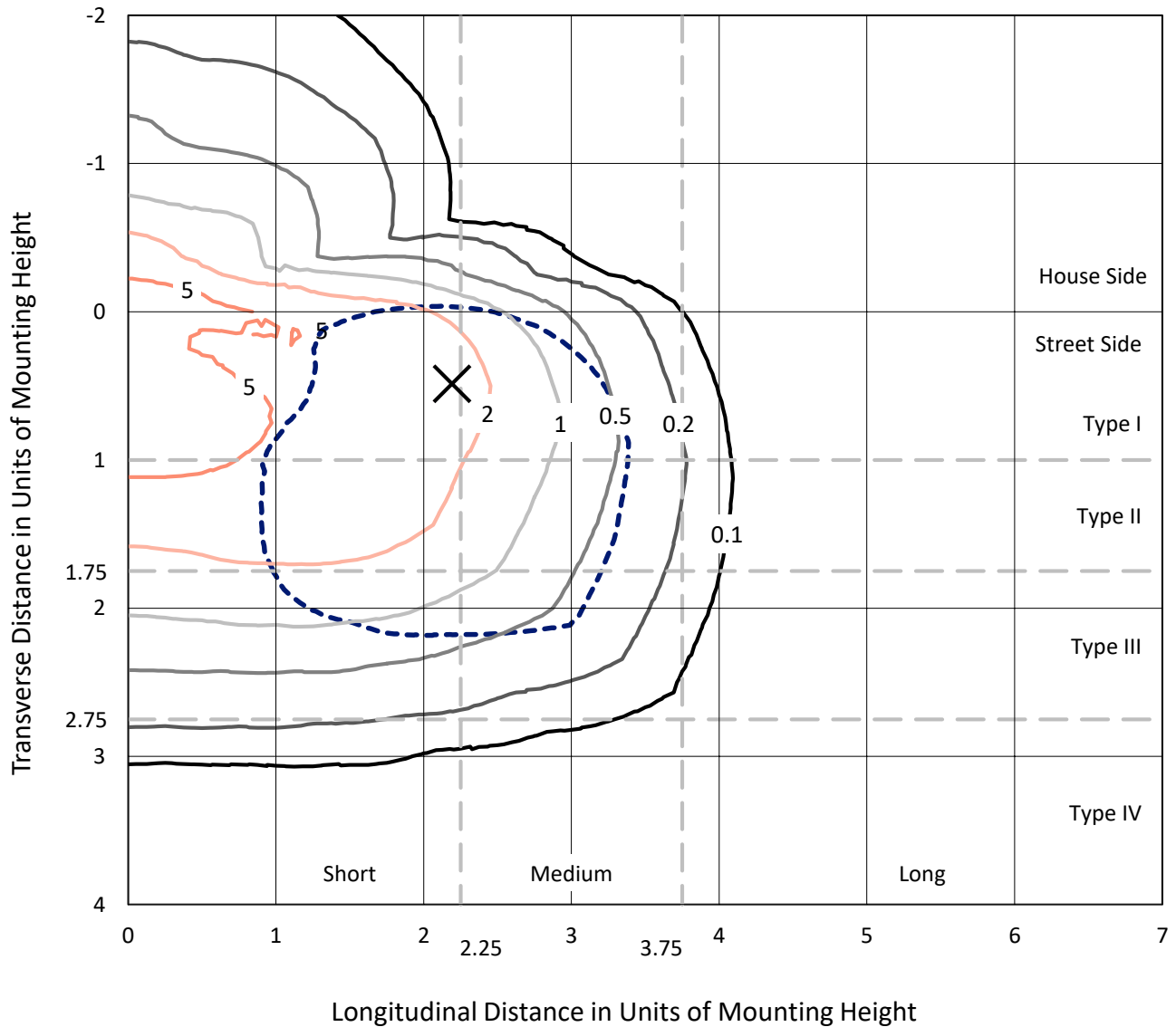
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

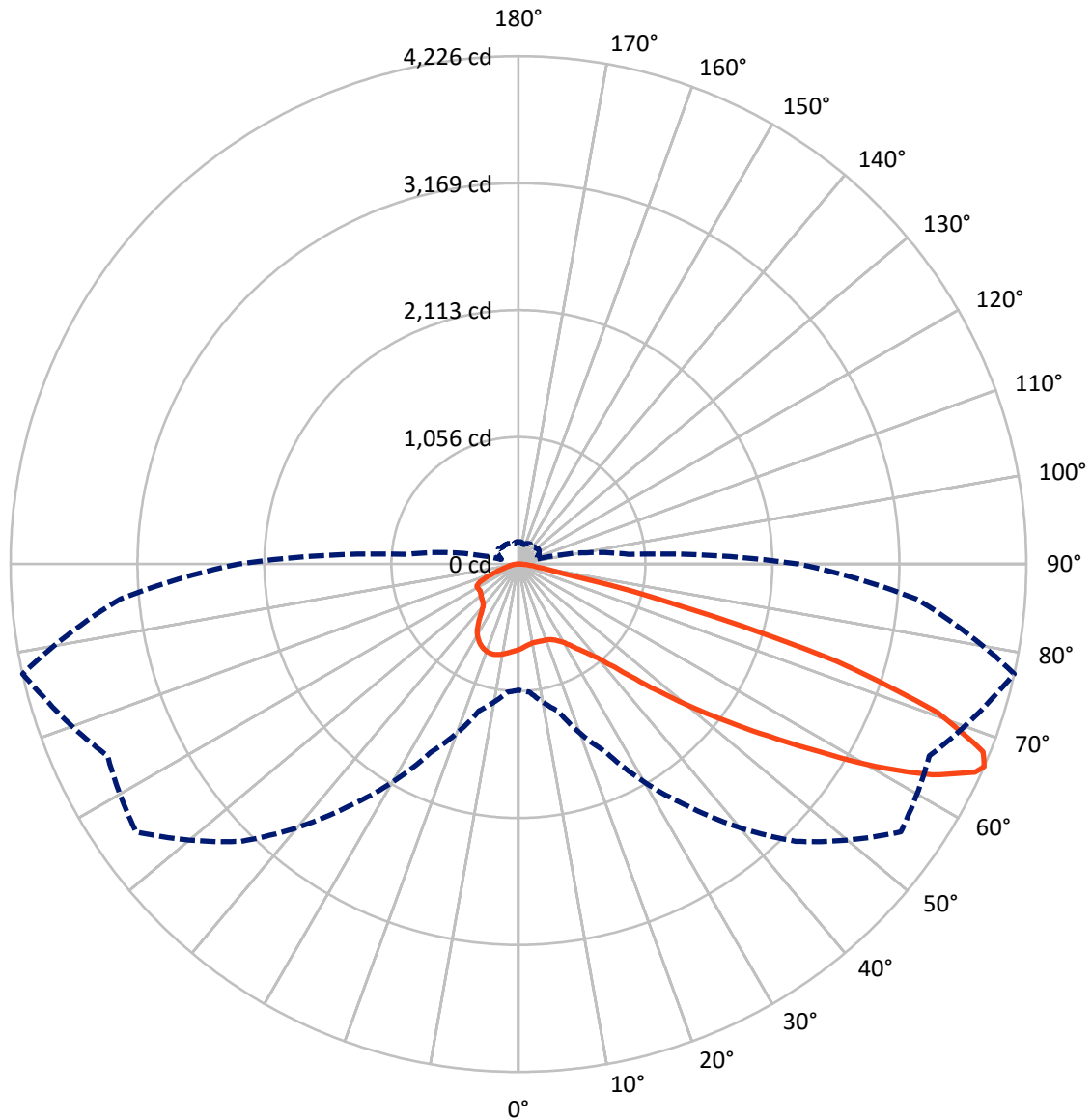
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 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	852.9	0.0	852.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4139.4	0.0	4139.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	4992.3	0.0	4992.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.3
10°-20°	179.3	3.6
20°-30°	306.0	6.1
30°-40°	489.9	9.8
40°-50°	756.8	15.2
50°-60°	1073.4	21.5
60°-70°	1436.0	28.8
70°-80°	623.6	12.5
80°-90°	63.6	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°	4992.3	100.0
0°-180°	4992.3	100.0



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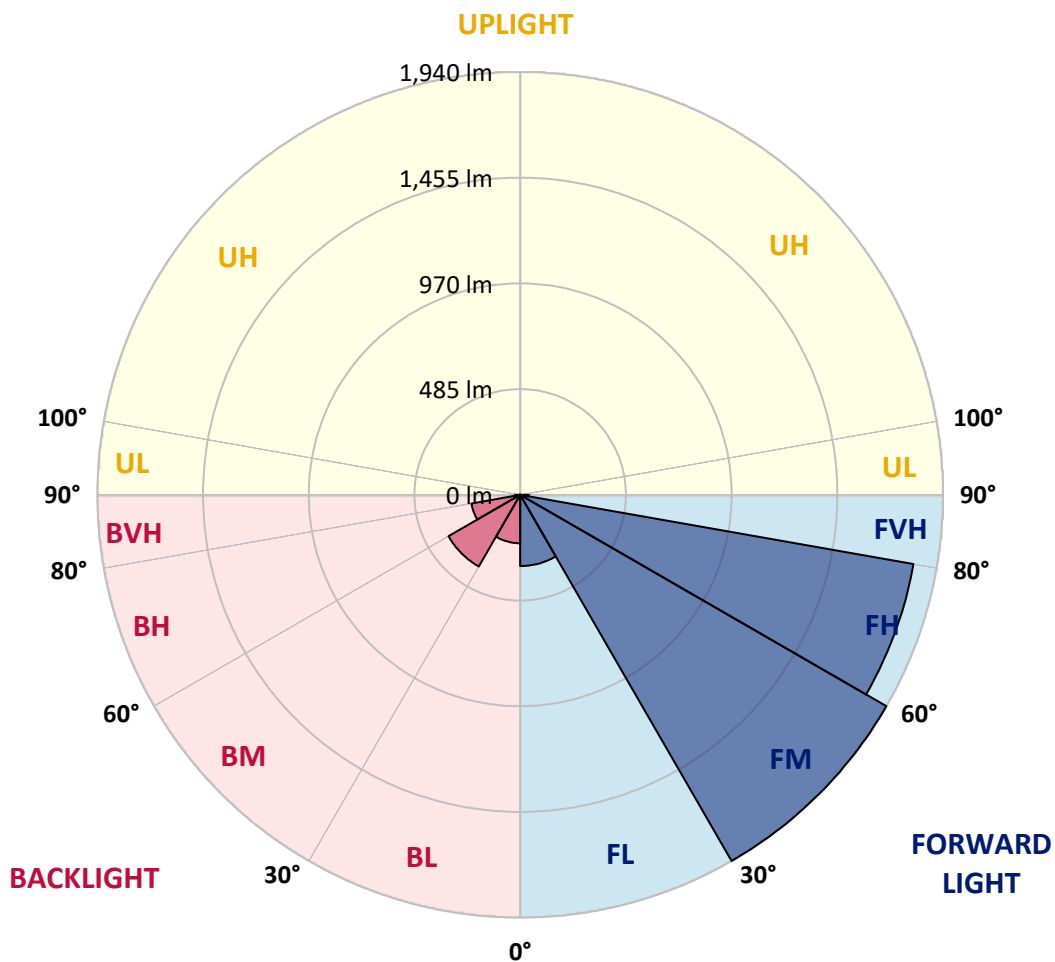
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.8	6.5			
FM	(30°-60°)	1940.3	38.9			
FH	(60°-80°)	1832.5	36.7			G2/5000
FVH	(80°-90°)	39.9	0.8			G1/100
BL	(0°-30°)	222.1	4.4	B1/500		
BM	(30°-60°)	379.9	7.6	B1/1000		
BH	(60°-80°)	227.1	4.5	B1/500		G1/500
BVH	(80°-90°)	23.7	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°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
2.5°	629.3	633.6	637.1	640.5	647.0	657.9	670.3	680.5	695.1	697.9	705.8
5°	571.5	571.5	574.4	579.4	588.3	604.6	621.6	644.2	676.0	683.5	704.4
7.5°	543.5	543.7	545.4	549.6	557.4	572.3	590.8	617.6	660.7	673.2	708.6
10°	553.9	551.5	548.0	545.8	547.0	555.7	573.4	603.2	651.3	667.3	718.0
12.5°	611.9	607.4	595.1	578.8	563.2	556.9	567.3	596.3	647.2	665.9	730.6
15°	706.7	704.8	681.9	648.2	610.5	578.8	571.7	593.7	647.8	667.5	745.4
17.5°	825.6	823.0	792.8	743.7	682.1	620.6	587.6	595.9	649.4	670.3	759.8
20°	945.6	937.7	905.1	846.6	767.5	677.4	613.7	601.3	651.5	673.4	774.8
22.5°	1035.3	1028.6	999.4	942.6	851.5	743.3	649.0	610.7	658.3	682.4	793.5
25°	1114.0	1114.6	1085.6	1030.6	936.5	813.1	694.2	636.0	675.8	700.8	819.0
27.5°	1211.4	1205.9	1178.7	1124.2	1020.5	883.6	749.0	670.7	701.8	727.0	852.5
30°	1328.0	1324.0	1292.6	1230.9	1113.6	959.4	811.5	710.9	735.2	761.4	896.3
32.5°	1465.0	1463.2	1430.7	1351.2	1221.2	1048.5	884.8	764.3	785.3	812.4	959.4
35°	1625.9	1626.1	1587.7	1492.2	1338.8	1152.3	968.1	832.9	846.2	874.4	1034.3
37.5°	1725.1	1737.1	1722.7	1625.3	1472.1	1268.4	1076.1	923.9	915.4	944.0	1114.8
40°	1746.2	1760.8	1806.4	1756.9	1621.2	1396.2	1171.9	1011.5	1000.8	1035.7	1218.3
42.5°	1716.5	1736.8	1833.0	1867.9	1779.5	1553.8	1300.7	1141.4	1128.0	1174.9	1347.1
45°	1698.9	1713.9	1825.3	1925.7	1916.8	1731.8	1464.6	1304.7	1299.7	1361.3	1495.8
47.5°	1668.1	1681.9	1789.0	1939.2	1997.5	1895.1	1661.6	1504.2	1513.9	1594.6	1663.4
50°	1684.7	1690.4	1748.4	1905.0	2020.9	2014.6	1881.7	1735.4	1768.5	1869.1	1853.3
52.5°	1682.3	1696.9	1743.7	1848.9	2023.9	2088.5	2098.4	1993.3	2062.8	2178.4	2063.9
55°	1360.1	1387.0	1688.2	1834.7	2034.7	2160.9	2291.4	2265.0	2394.6	2529.3	2301.7
57.5°	1298.8	1315.7	1482.8	1864.4	2092.3	2299.2	2506.0	2564.0	2781.1	2937.5	2591.4
60°	1286.7	1307.8	1480.6	1900.8	2209.0	2524.4	2824.3	2926.1	3251.2	3422.4	2927.3
62.5°	1249.3	1271.9	1466.8	1896.1	2374.9	2836.0	3231.6	3311.2	3697.0	3863.6	3208.3
65°	1130.4	1151.6	1353.2	1819.8	2486.7	3168.6	3713.7	3664.0	4048.9	4174.2	3348.4
66°	1048.9	1069.8	1263.9	1730.2	2460.7	3262.9	3884.5	3773.2	4127.8	4225.8	3321.0
67.5°	900.2	916.4	1090.3	1529.5	2322.8	3289.4	4028.2	3855.3	4135.9	4170.6	3164.7
70°	568.7	573.4	708.6	1055.8	1758.3	2852.7	3809.5	3651.5	3794.9	3701.0	2653.0
72.5°	246.7	245.1	340.2	537.1	995.5	1914.2	3081.6	3013.0	2976.9	2762.6	1857.1
75°	137.3	139.2	176.7	249.3	404.5	940.2	2015.8	1929.0	1628.7	1389.9	842.1
77.5°	110.2	112.8	146.5	176.9	181.6	327.9	943.3	767.5	462.1	370.8	234.0
80°	87.0	91.7	127.8	137.8	122.4	135.1	304.7	243.7	182.8	167.7	121.3
82.5°	68.8	72.2	109.7	104.3	85.6	91.1	146.0	142.2	118.9	108.3	70.0
85°	49.5	55.6	90.1	78.5	56.2	61.3	97.0	92.9	68.2	55.6	30.9
87.5°	20.3	26.4	63.7	52.1	31.4	28.6	48.3	45.5	32.3	23.6	15.4
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°	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5	711.5
2.5°	710.7	716.4	723.7	728.2	730.6	732.2	734.8	734.6	735.2	735.5	736.4
5°	715.4	724.9	735.5	738.3	738.3	735.7	733.2	728.9	727.3	726.7	727.3
7.5°	727.7	738.1	747.2	744.0	736.9	726.5	713.1	701.3	694.9	692.8	692.3
10°	743.3	755.7	759.6	747.0	726.3	701.3	674.6	655.3	644.2	641.1	640.1
12.5°	762.2	774.0	768.7	742.3	703.8	663.6	626.7	595.9	572.7	565.4	565.0
15°	782.9	792.1	774.0	727.7	670.3	610.9	545.4	492.0	463.2	454.1	453.4
17.5°	802.2	807.0	770.9	702.2	621.0	524.8	437.8	396.8	386.9	389.2	389.7
20°	818.8	818.8	760.4	665.7	543.5	411.4	356.4	355.7	362.8	369.9	371.3
22.5°	836.9	826.1	742.3	614.0	433.6	336.6	328.6	335.2	343.2	351.0	352.2
25°	859.4	832.0	717.1	535.6	340.8	305.7	308.8	314.2	318.2	323.2	323.8
27.5°	884.3	839.5	683.9	427.9	295.8	286.3	288.7	290.6	290.1	292.0	292.5
30°	914.3	848.2	638.3	334.5	277.1	269.8	265.6	264.0	264.0	267.0	268.2
32.5°	954.4	861.2	572.9	286.6	268.2	258.1	244.4	238.2	240.6	251.0	253.4
35°	998.5	875.2	484.5	270.3	266.3	252.6	231.4	220.1	220.3	230.0	233.1
37.5°	1046.6	892.8	387.5	267.2	270.6	252.8	224.6	209.0	202.7	202.7	203.8
40°	1108.2	911.0	313.7	269.4	279.5	255.7	221.0	200.3	182.4	182.8	183.8
42.5°	1188.4	926.6	274.1	273.9	290.3	259.5	220.8	188.7	173.1	183.8	193.4
45°	1277.5	934.3	256.6	277.9	299.1	261.9	217.0	186.8	174.3	205.9	224.4
47.5°	1380.2	929.8	246.9	279.3	301.2	261.9	212.8	191.3	182.6	238.4	259.9
50°	1492.6	916.8	237.6	276.5	300.5	261.3	216.7	195.8	185.6	244.1	259.0
52.5°	1625.0	906.0	227.6	270.3	295.6	258.7	221.5	193.9	175.9	222.0	232.3
55°	1776.0	909.1	216.5	261.6	287.7	253.8	219.9	186.4	165.8	195.6	201.9
57.5°	1968.9	945.6	203.3	250.5	277.1	245.5	214.0	182.8	162.7	177.4	181.2
60°	2184.2	1009.3	186.8	239.4	264.0	232.3	209.4	184.4	164.2	175.9	177.9
62.5°	2342.3	1046.4	172.7	223.2	246.1	217.7	203.8	186.6	168.0	180.9	180.4
65°	2385.3	985.6	155.0	199.3	221.7	202.4	196.8	188.9	169.6	185.0	182.8
66°	2325.2	919.9	147.1	188.3	209.4	194.8	193.2	188.7	168.8	185.4	181.8
67.5°	2179.1	785.5	133.7	172.0	189.9	183.6	187.5	186.6	167.0	185.0	180.0
70°	1777.2	536.0	114.4	143.2	158.0	161.5	176.7	179.0	160.9	176.7	165.8
72.5°	1241.7	326.4	101.2	111.1	127.8	137.8	161.9	168.6	152.6	154.2	143.9
75°	600.1	173.4	91.7	86.1	99.4	115.1	143.9	154.5	139.6	129.0	125.2
77.5°	187.1	105.9	77.9	69.4	77.9	92.9	120.3	135.4	124.3	108.1	106.7
80°	100.5	77.9	59.9	55.6	61.5	72.9	94.6	113.0	106.9	97.0	86.6
82.5°	66.3	50.5	44.4	43.2	46.9	55.6	70.2	93.7	93.7	83.0	60.4
85°	34.2	30.9	30.4	30.4	32.8	37.1	47.9	72.2	76.9	43.8	36.3
87.5°	17.0	17.7	16.5	17.2	18.4	18.2	22.9	36.3	43.4	26.6	22.1
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)