

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: P200668

Luminaire Tested: **GWC-AF-02-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200668
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-T3-8030-600
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6681 lumens
Efficiency: N/A
Efficacy: 101.2 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): 66
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



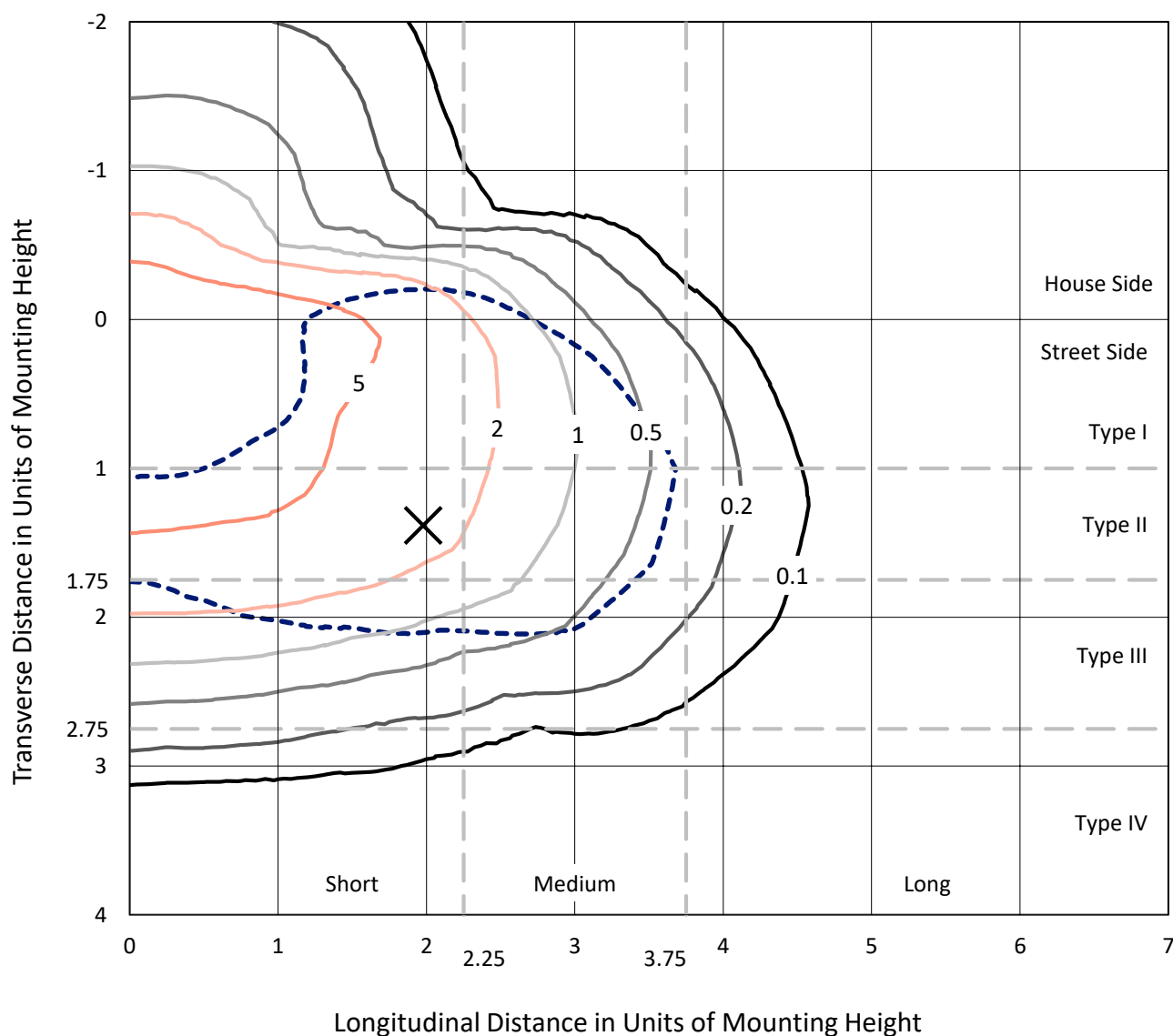
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

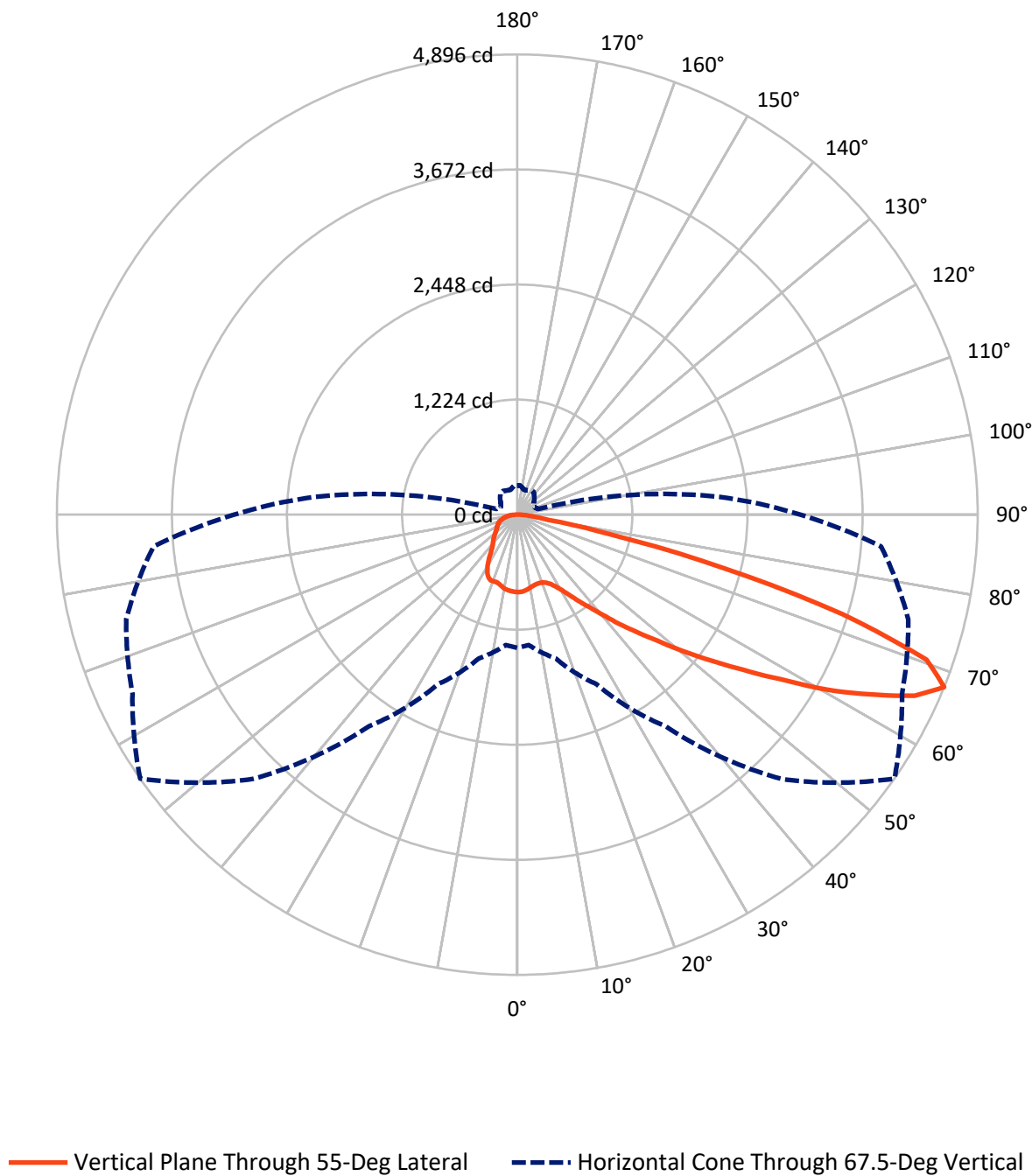


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1443.2	0.0	1443.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5237.8	0.0	5237.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	6681.0	0.0	6681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.2
10°-20°	217.8	3.3
20°-30°	364.8	5.5
30°-40°	599.9	9.0
40°-50°	1009.8	15.1
50°-60°	1589.4	23.8
60°-70°	1896.8	28.4
70°-80°	814.5	12.2
80°-90°	111.1	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°	6681.0	100.0
0°-180°	6681.0	100.0

Coefficient of Utilization



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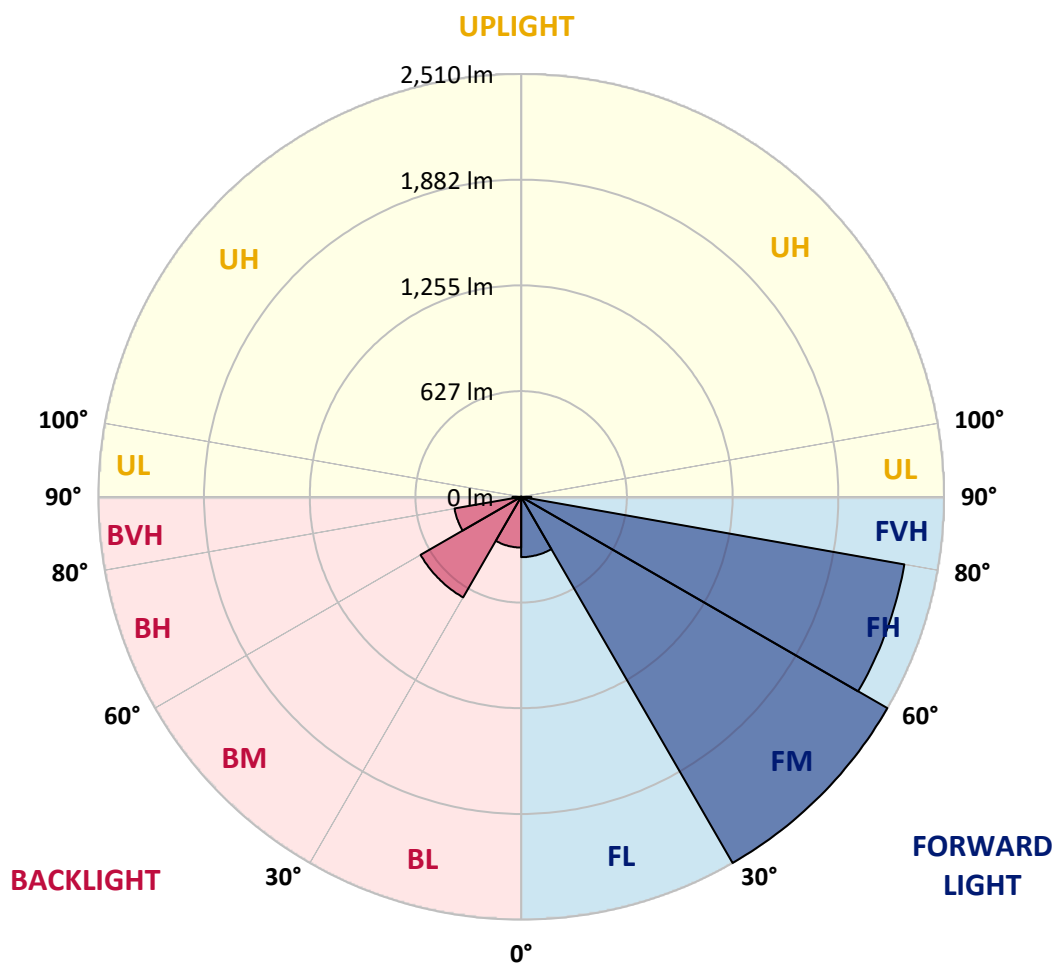
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.1	5.4			
FM	(30°-60°)	2509.9	37.6			
FH	(60°-80°)	2309.6	34.6			G2/5000
FVH	(80°-90°)	60.1	0.9			G1/100
BL	(0°-30°)	301.4	4.5	B1/500		
BM	(30°-60°)	689.3	10.3	B1/1000		
BH	(60°-80°)	401.6	6.0	B1/500		G1/500
BVH	(80°-90°)	50.9	0.8			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°	85°	90°
0°	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8
2.5°	816.7	817.1	817.7	820.3	822.5	821.9	822.2	820.9	820.6	818.7	820.6
5°	806.4	807.4	807.7	811.9	814.5	815.1	814.2	812.5	810.6	808.7	809.6
7.5°	782.9	785.4	785.8	791.6	795.8	801.3	801.6	801.9	800.9	799.6	801.6
10°	768.0	768.7	768.3	772.5	775.8	781.9	785.4	791.6	794.2	794.8	796.1
12.5°	767.0	766.4	765.4	765.4	764.5	767.0	773.5	782.2	788.3	790.3	791.9
15°	777.4	777.0	773.8	769.0	762.9	760.9	766.4	776.1	784.1	788.3	790.0
17.5°	800.6	798.7	793.5	782.5	769.3	764.1	764.8	772.9	782.2	787.7	789.3
20°	843.2	843.2	832.2	811.6	788.0	775.8	770.0	774.8	783.8	791.2	793.5
22.5°	916.8	917.4	899.0	865.1	825.5	799.3	784.8	783.8	794.5	802.9	805.4
25°	1021.0	1018.4	992.6	944.2	883.9	840.6	815.5	809.6	818.7	828.0	831.3
27.5°	1142.3	1133.0	1102.3	1043.9	965.8	902.6	863.9	854.5	863.2	873.9	877.1
30°	1262.4	1252.7	1216.2	1152.3	1065.5	985.5	930.0	914.8	927.1	942.3	944.2
32.5°	1382.4	1382.4	1341.8	1267.2	1172.7	1084.6	1018.1	1000.0	1020.4	1038.8	1043.0
35°	1526.0	1526.7	1487.3	1397.6	1295.9	1202.7	1129.4	1116.2	1146.9	1159.8	1169.8
37.5°	1702.5	1706.1	1655.4	1547.0	1435.7	1337.6	1250.4	1232.4	1263.0	1298.2	1330.5
40°	1893.3	1897.8	1841.9	1708.3	1597.0	1494.4	1400.2	1367.6	1418.6	1485.7	1527.3
42.5°	2075.3	2098.5	2044.6	1907.1	1787.4	1681.2	1585.7	1538.3	1602.2	1703.5	1739.6
45°	2338.2	2355.0	2261.1	2136.6	2023.9	1905.2	1778.7	1728.7	1818.1	1945.9	1953.3
47.5°	2513.5	2500.9	2453.1	2375.7	2304.4	2193.4	2003.0	1948.1	2066.9	2217.2	2175.6
50°	2606.7	2610.6	2604.1	2608.7	2611.2	2541.5	2277.9	2202.7	2344.4	2526.1	2430.2
52.5°	2693.9	2668.0	2689.3	2795.2	2923.0	2897.2	2577.0	2498.6	2641.9	2868.8	2699.3
55°	2691.9	2652.6	2721.9	2908.8	3186.0	3215.7	2913.0	2822.6	2956.5	3236.3	2984.6
57.5°	2596.7	2598.7	2705.5	2950.1	3369.3	3515.1	3302.8	3167.3	3290.2	3608.7	3245.0
60°	2465.7	2483.5	2637.4	2943.3	3516.1	3760.7	3781.0	3538.7	3617.1	3947.2	3460.6
62.5°	2254.3	2273.1	2485.4	2873.0	3493.8	3997.2	4213.4	3960.1	3958.8	4152.4	3523.8
65°	1921.0	1915.5	2138.5	2610.0	3307.0	4172.1	4642.9	4324.4	4216.3	4155.7	3396.7
67.5°	1416.6	1392.1	1583.5	1987.8	2748.7	3976.2	4895.6	4514.2	4304.1	3882.3	3008.2
70°	735.1	710.6	865.5	1160.7	1807.7	3103.4	4615.8	4416.1	4110.2	3254.4	2356.6
72.5°	314.3	310.1	373.0	509.2	874.5	1790.0	3619.3	3822.3	3526.7	2424.7	1620.3
75°	211.4	210.1	233.6	277.5	393.4	726.4	2265.0	2713.2	2580.3	1503.4	911.3
77.5°	165.9	164.3	178.1	199.4	254.9	286.6	1005.2	1456.6	1348.2	654.4	398.9
80°	129.7	128.4	137.1	148.8	183.3	180.7	330.8	579.6	448.5	250.7	193.9
82.5°	102.3	102.3	109.4	109.7	130.0	123.3	172.6	255.3	224.0	146.2	118.8
85°	93.6	93.6	101.0	82.0	84.9	77.8	107.1	151.3	142.0	60.0	51.6
87.5°	47.1	45.8	84.9	72.6	46.1	41.3	52.3	73.3	78.7	33.2	25.8
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°	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8	823.8
2.5°	820.0	819.6	820.3	820.6	823.2	826.7	828.4	830.6	831.9	831.3
5°	810.3	810.9	813.5	815.5	820.0	825.8	829.0	831.6	833.8	832.9
7.5°	802.2	803.8	807.7	809.3	811.9	813.5	813.2	814.2	816.1	813.8
10°	797.7	799.6	802.5	800.3	794.2	785.4	777.4	773.2	774.5	772.9
12.5°	793.2	795.8	793.5	782.9	765.8	754.5	748.3	749.0	751.9	752.5
15°	790.6	791.6	781.9	761.9	744.5	742.8	746.1	745.4	745.7	745.7
17.5°	790.6	788.0	770.0	749.9	742.5	739.6	729.6	717.0	711.5	709.6
20°	794.8	788.0	766.1	752.8	736.7	711.9	685.4	662.2	651.8	648.9
22.5°	807.4	795.8	777.0	754.1	708.3	666.7	624.7	597.0	578.3	575.0
25°	832.9	820.0	798.7	737.0	663.1	603.8	556.0	525.0	506.3	503.7
27.5°	877.4	869.0	810.3	699.3	603.1	539.5	495.3	471.5	457.6	456.6
30°	944.5	940.3	804.5	643.5	529.2	477.3	456.0	442.1	431.8	431.4
32.5°	1051.7	1017.8	785.4	575.4	461.8	433.1	424.3	416.0	407.9	407.9
35°	1189.5	1080.4	749.3	502.4	420.8	408.5	397.6	384.3	373.7	373.0
37.5°	1351.4	1119.1	684.4	443.7	401.4	392.1	375.9	356.3	337.5	334.3
40°	1515.1	1130.7	593.1	407.6	389.2	375.6	355.9	332.7	314.6	313.7
42.5°	1665.1	1108.5	496.3	382.7	376.9	358.8	338.2	317.5	303.3	303.0
45°	1791.0	1050.7	415.0	359.2	364.0	343.7	325.3	308.5	297.5	295.3
47.5°	1909.4	969.1	357.9	334.3	351.1	335.3	319.8	304.0	293.3	291.7
50°	2046.9	881.0	317.9	310.1	339.8	332.4	324.3	307.9	290.1	288.2
52.5°	2213.4	804.8	286.6	288.8	331.1	336.2	335.9	318.8	287.8	285.3
55°	2399.2	720.3	263.0	271.4	327.5	343.3	338.8	329.1	289.8	285.9
57.5°	2582.2	621.5	246.5	258.2	322.4	342.7	325.0	311.1	294.3	288.8
60°	2719.4	488.9	234.0	246.5	311.1	332.1	309.8	291.4	293.3	289.1
62.5°	2728.4	377.9	218.8	236.5	294.0	321.4	299.8	282.7	297.5	293.7
65°	2568.0	285.6	204.3	224.6	275.6	314.6	290.1	277.8	306.2	302.0
67.5°	2162.1	229.8	192.0	212.3	257.2	300.4	281.4	273.3	314.0	306.6
70°	1560.9	195.9	180.1	197.5	240.7	284.3	273.6	265.3	293.0	281.4
72.5°	961.0	169.7	166.5	177.8	228.1	267.5	262.0	250.1	264.0	254.6
75°	479.8	147.1	151.3	158.4	210.4	248.5	242.7	230.7	232.7	230.7
77.5°	229.8	125.9	133.6	139.1	187.5	226.9	220.7	208.5	206.2	206.5
80°	145.5	105.2	112.6	116.5	167.5	201.7	195.6	183.3	209.1	193.9
82.5°	91.0	85.5	87.5	94.5	145.9	175.5	167.5	156.5	188.5	149.1
85°	50.3	59.7	62.3	68.4	112.3	146.8	138.8	124.9	112.0	110.0
87.5°	30.0	35.5	36.5	41.0	75.5	106.2	93.9	89.1	73.9	73.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)