

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: P200195

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200195
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-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4380.3 lumens
Efficiency: N/A
Efficacy: 128.8 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 - G1

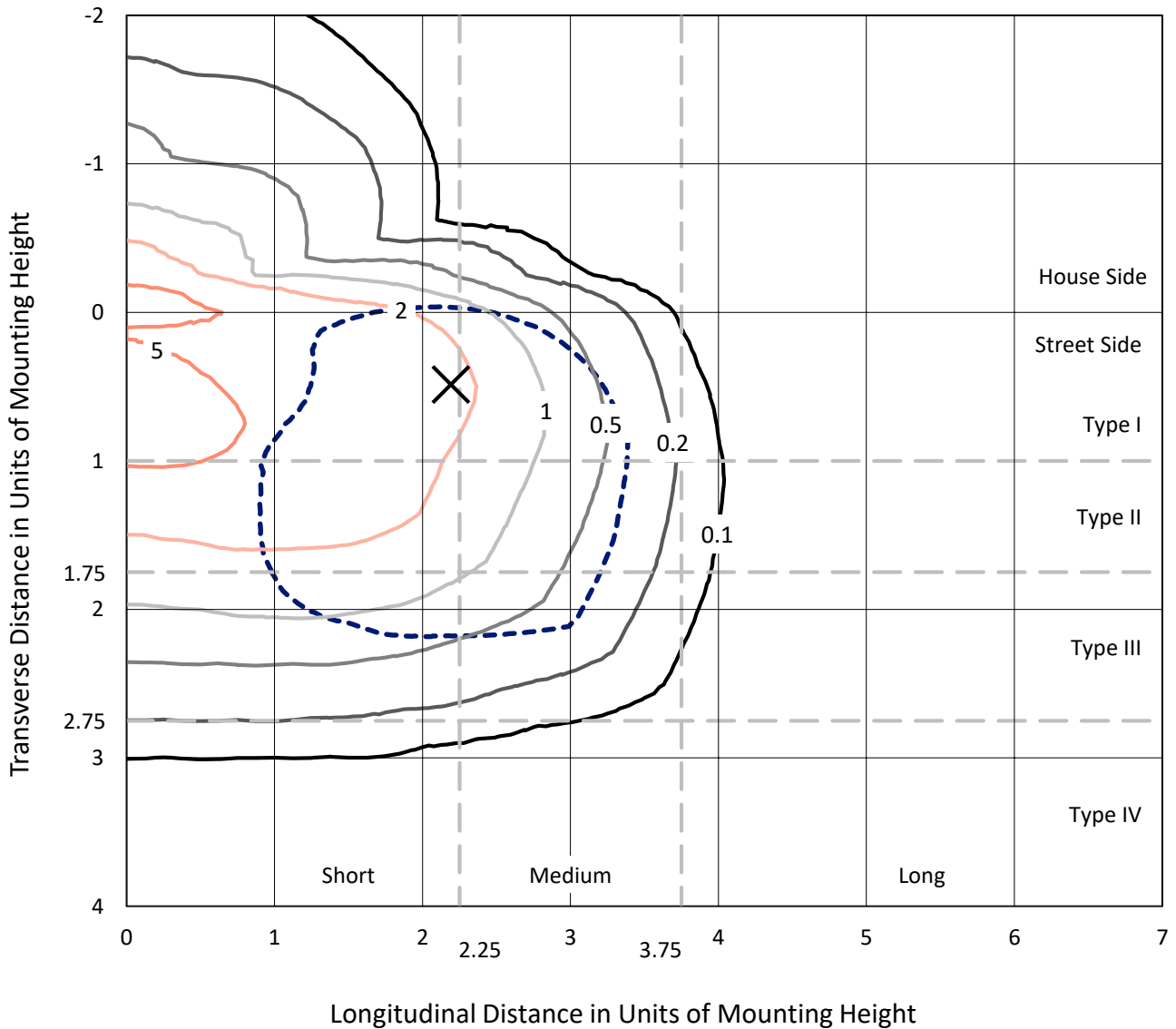
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

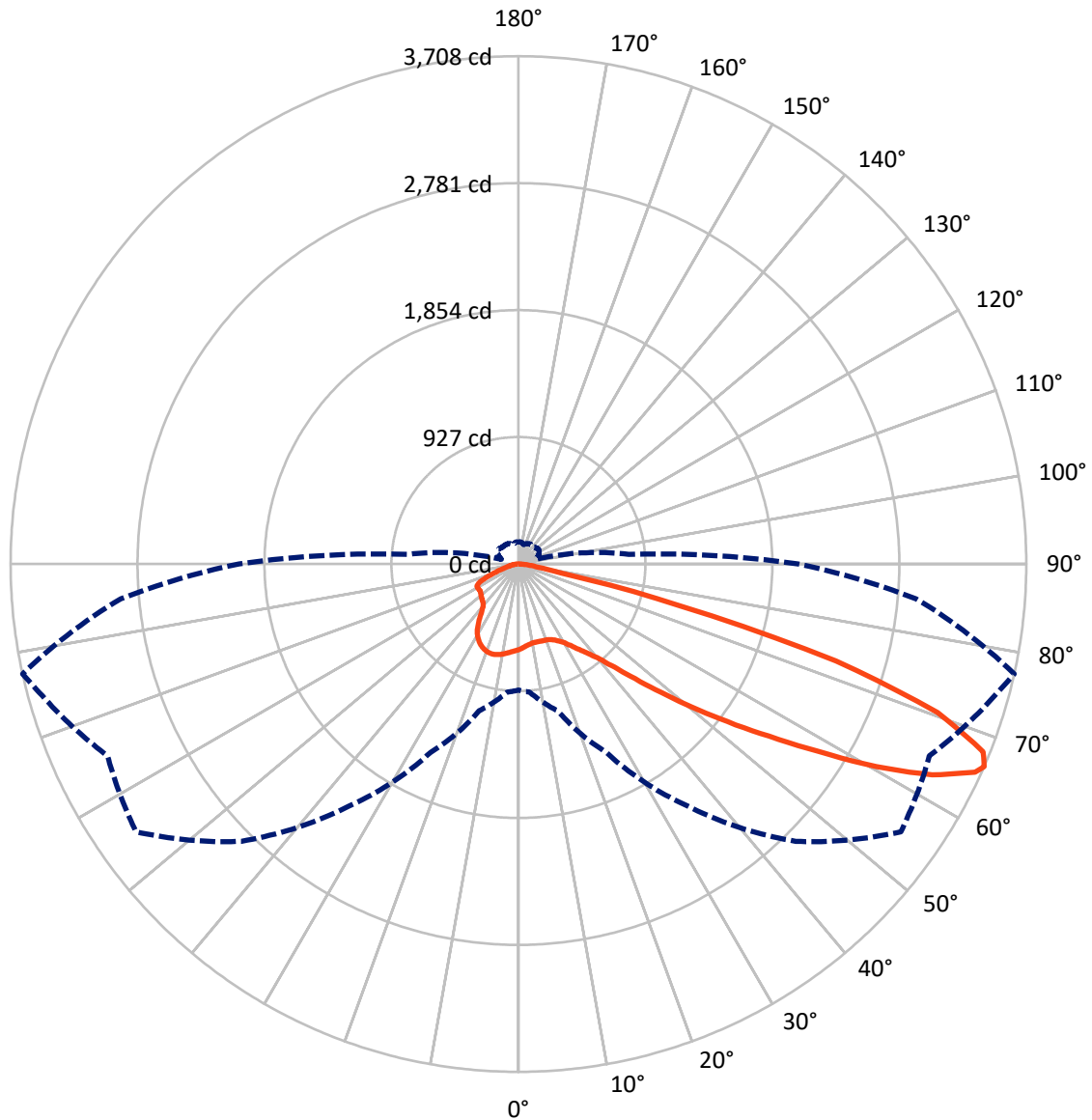
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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	748.3	0.0	748.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3631.9	0.0	3631.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	4380.3	0.0	4380.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.3
10°-20°	157.3	3.6
20°-30°	268.5	6.1
30°-40°	429.8	9.8
40°-50°	664.1	15.2
50°-60°	941.9	21.5
60°-70°	1260.0	28.8
70°-80°	547.2	12.5
80°-90°	55.8	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°	4380.3	100.0
0°-180°	4380.3	100.0



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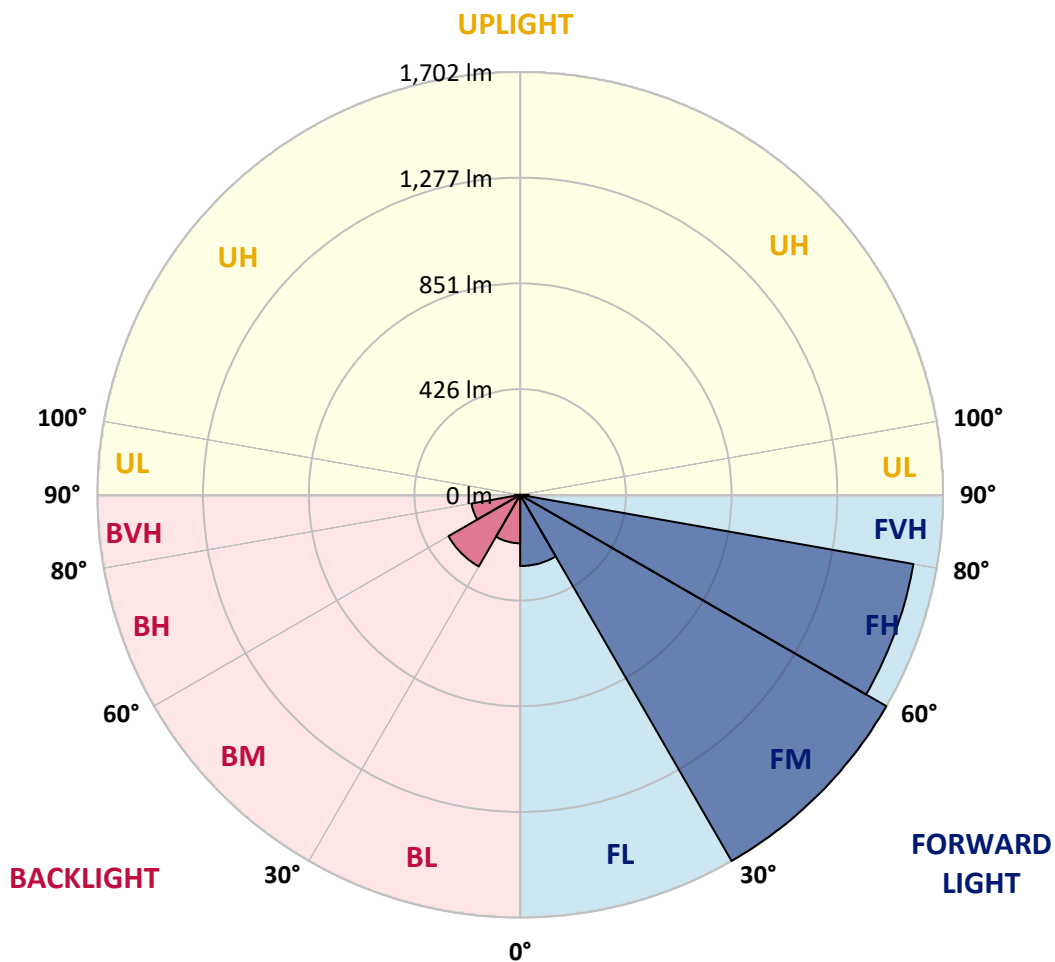
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.7	6.5			
FM	(30°-60°)	1702.4	38.9			
FH	(60°-80°)	1607.8	36.7			G1/1800
FVH	(80°-90°)	35.0	0.8			G1/100
BL	(0°-30°)	194.9	4.4	B1/500		
BM	(30°-60°)	333.3	7.6	B1/1000		
BH	(60°-80°)	199.3	4.5	B1/500		G1/500
BVH	(80°-90°)	20.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	552.2	555.9	559.0	561.9	567.7	577.3	588.2	597.1	609.9	612.4	619.2
5°	501.5	501.5	504.0	508.3	516.2	530.5	545.3	565.2	593.2	599.8	618.0
7.5°	476.9	477.1	478.5	482.2	489.1	502.1	518.4	541.9	579.7	590.7	621.7
10°	486.0	483.9	480.8	478.9	480.0	487.6	503.1	529.2	571.4	585.5	630.0
12.5°	536.8	533.0	522.2	507.9	494.2	488.7	497.8	523.2	567.9	584.3	641.0
15°	620.1	618.4	598.3	568.8	535.6	507.9	501.7	520.9	568.4	585.7	654.0
17.5°	724.4	722.1	695.6	652.5	598.5	544.5	515.6	522.8	569.8	588.2	666.7
20°	829.7	822.7	794.1	742.8	673.5	594.4	538.5	527.5	571.6	590.9	679.9
22.5°	908.4	902.5	876.9	827.1	747.2	652.1	569.4	535.8	577.7	598.7	696.2
25°	977.5	977.9	952.5	904.2	821.6	713.4	609.1	558.0	593.0	614.9	718.6
27.5°	1062.9	1058.0	1034.2	986.4	895.3	775.3	657.1	588.4	615.7	637.9	748.0
30°	1165.2	1161.7	1134.1	1079.9	977.1	841.7	712.0	623.8	645.1	668.1	786.4
32.5°	1285.4	1283.8	1255.3	1185.5	1071.4	919.9	776.3	670.5	689.0	712.8	841.7
35°	1426.6	1426.8	1393.1	1309.3	1174.8	1011.0	849.4	730.8	742.4	767.2	907.6
37.5°	1513.6	1524.1	1511.5	1426.0	1291.7	1112.9	944.2	810.7	803.2	828.3	978.1
40°	1532.2	1545.0	1585.0	1541.5	1422.5	1225.0	1028.2	887.5	878.2	908.8	1069.0
42.5°	1506.1	1523.9	1608.3	1639.0	1561.3	1363.3	1141.2	1001.5	989.7	1030.9	1182.0
45°	1490.5	1503.8	1601.5	1689.7	1681.8	1519.6	1285.0	1144.7	1140.4	1194.4	1312.3
47.5°	1463.6	1475.7	1569.6	1701.5	1752.6	1662.8	1457.9	1319.8	1328.3	1399.1	1459.5
50°	1478.2	1483.1	1534.0	1671.5	1773.1	1767.7	1650.9	1522.7	1551.6	1640.0	1626.1
52.5°	1476.1	1488.9	1529.9	1622.2	1775.7	1832.5	1841.2	1748.8	1809.9	1911.4	1810.9
55°	1193.4	1217.0	1481.2	1609.8	1785.3	1896.0	2010.5	1987.3	2101.1	2219.3	2019.6
57.5°	1139.6	1154.5	1301.0	1635.9	1835.8	2017.3	2198.8	2249.7	2440.1	2577.3	2273.7
60°	1129.0	1147.4	1299.1	1667.7	1938.3	2215.0	2478.0	2567.4	2852.6	3002.9	2568.4
62.5°	1096.1	1115.9	1286.9	1663.6	2083.8	2488.3	2835.4	2905.2	3243.8	3389.9	2815.0
65°	991.8	1010.4	1187.3	1596.7	2181.9	2780.2	3258.5	3214.8	3552.6	3662.5	2937.9
66°	920.3	938.6	1108.9	1518.1	2159.0	2862.9	3408.4	3310.7	3621.7	3707.8	2913.9
67.5°	789.8	804.0	956.6	1342.0	2038.0	2886.2	3534.4	3382.7	3628.9	3659.4	2776.7
70°	499.0	503.1	621.7	926.4	1542.7	2503.1	3342.5	3203.9	3329.7	3247.3	2327.7
72.5°	216.5	215.0	298.4	471.3	873.4	1679.5	2703.8	2643.6	2611.9	2424.0	1629.5
75°	120.5	122.1	155.0	218.8	355.0	825.0	1768.8	1692.6	1429.1	1219.5	738.9
77.5°	96.7	98.9	128.5	155.2	159.4	287.7	827.7	673.5	405.5	325.4	205.3
80°	76.4	80.5	112.2	120.9	107.4	118.6	267.4	213.8	160.4	147.2	106.4
82.5°	60.5	63.3	96.3	91.5	75.1	79.9	128.1	124.8	104.3	95.0	61.5
85°	43.5	48.8	79.1	68.9	49.3	53.8	85.1	81.5	59.8	48.8	27.1
87.5°	17.8	23.2	55.9	45.7	27.5	25.1	42.5	39.9	28.3	20.7	13.5
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°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	623.6	628.6	634.9	638.9	641.0	642.4	644.7	644.5	645.1	645.3	646.2
5°	627.7	636.0	645.3	647.8	647.8	645.5	643.2	639.5	638.1	637.7	638.1
7.5°	638.5	647.6	655.7	652.7	646.6	637.5	625.6	615.3	609.7	607.8	607.4
10°	652.1	663.1	666.5	655.5	637.3	615.3	591.9	575.0	565.2	562.5	561.7
12.5°	668.7	679.0	674.5	651.3	617.6	582.2	549.9	522.8	502.5	496.1	495.7
15°	686.9	695.0	679.0	638.5	588.2	536.0	478.5	431.7	406.5	398.4	397.8
17.5°	703.9	708.0	676.4	616.1	544.9	460.5	384.1	348.1	339.4	341.5	341.9
20°	718.4	718.4	667.3	584.1	476.9	361.0	312.7	312.1	318.3	324.5	325.8
22.5°	734.3	724.8	651.3	538.7	380.4	295.3	288.3	294.1	301.2	308.0	309.0
25°	754.0	730.0	629.2	470.0	299.1	268.2	270.9	275.7	279.2	283.6	284.2
27.5°	775.9	736.6	600.0	375.4	259.5	251.2	253.3	255.0	254.6	256.2	256.7
30°	802.2	744.3	560.1	293.5	243.2	236.8	233.0	231.6	231.6	234.3	235.3
32.5°	837.4	755.7	502.7	251.4	235.3	226.4	214.4	209.0	211.1	220.2	222.3
35°	876.1	767.8	425.1	237.2	233.6	221.7	203.1	193.1	193.3	201.8	204.5
37.5°	918.3	783.4	340.0	234.5	237.4	221.9	197.0	183.4	177.8	177.8	178.8
40°	972.3	799.3	275.3	236.4	245.3	224.3	194.0	175.7	160.0	160.4	161.2
42.5°	1042.7	812.9	240.5	240.3	254.8	227.7	193.7	165.6	151.9	161.2	169.7
45°	1120.9	819.8	225.2	243.8	262.4	229.8	190.4	163.9	152.9	180.7	196.8
47.5°	1211.0	815.9	216.7	245.1	264.3	229.8	186.7	167.9	160.2	209.2	228.1
50°	1309.7	804.4	208.4	242.5	263.7	229.3	190.2	171.8	162.9	214.2	227.3
52.5°	1425.8	794.9	199.7	237.2	259.3	227.0	194.4	170.1	154.4	194.8	203.9
55°	1558.3	797.7	190.0	229.6	252.5	222.7	192.9	163.5	145.5	171.5	177.2
57.5°	1727.6	829.7	178.4	219.8	243.2	215.4	187.7	160.4	142.8	155.6	159.0
60°	1916.5	885.6	163.9	210.1	231.6	203.9	183.8	161.8	144.0	154.4	156.1
62.5°	2055.2	918.1	151.5	195.8	215.8	191.0	178.8	163.7	147.4	158.8	158.4
65°	2092.9	864.7	136.0	174.9	194.6	177.6	172.6	165.8	148.8	162.2	160.4
66°	2040.1	807.2	129.1	165.2	183.8	170.9	169.5	165.6	148.2	162.6	159.6
67.5°	1912.0	689.2	117.3	150.9	166.6	161.0	164.5	163.7	146.5	162.2	157.9
70°	1559.3	470.3	100.4	125.6	138.7	141.8	155.0	157.1	141.2	155.0	145.5
72.5°	1089.4	286.4	88.8	97.5	112.2	120.9	142.0	148.0	133.9	135.3	126.2
75°	526.5	152.1	80.5	75.5	87.2	101.0	126.2	135.5	122.5	113.2	109.9
77.5°	164.1	92.9	68.3	60.9	68.3	81.5	105.6	118.8	109.0	94.8	93.5
80°	88.2	68.3	52.6	48.8	54.0	63.9	83.0	99.1	93.8	85.1	76.0
82.5°	58.2	44.3	38.9	37.8	41.2	48.8	61.7	82.1	82.1	72.8	53.0
85°	30.0	27.1	26.7	26.7	28.7	32.5	42.0	63.3	67.5	38.5	31.9
87.5°	14.9	15.5	14.5	15.1	16.2	16.0	20.0	31.9	38.1	23.4	19.4
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)