

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: P200196

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200196  
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-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8561.1 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

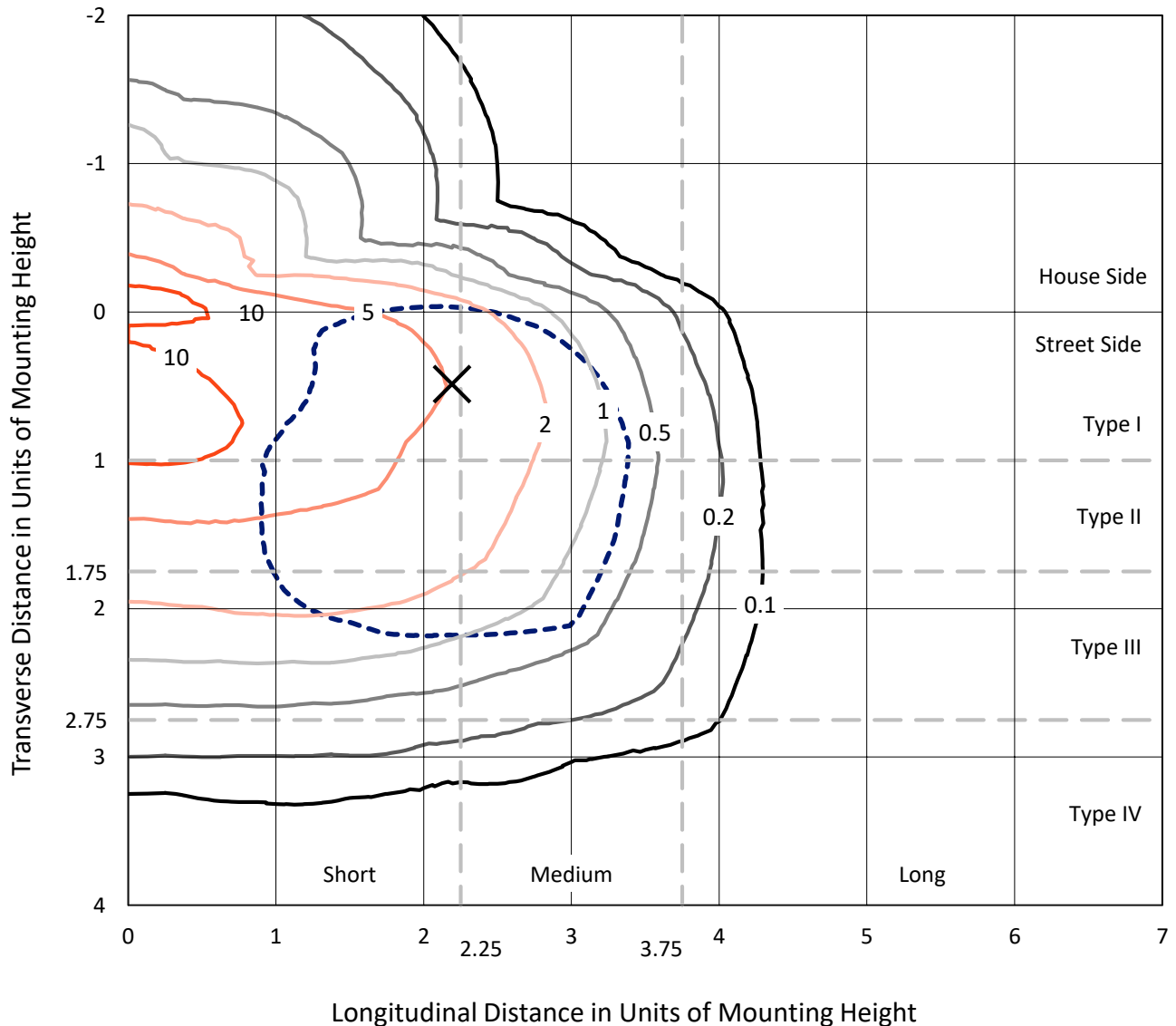
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

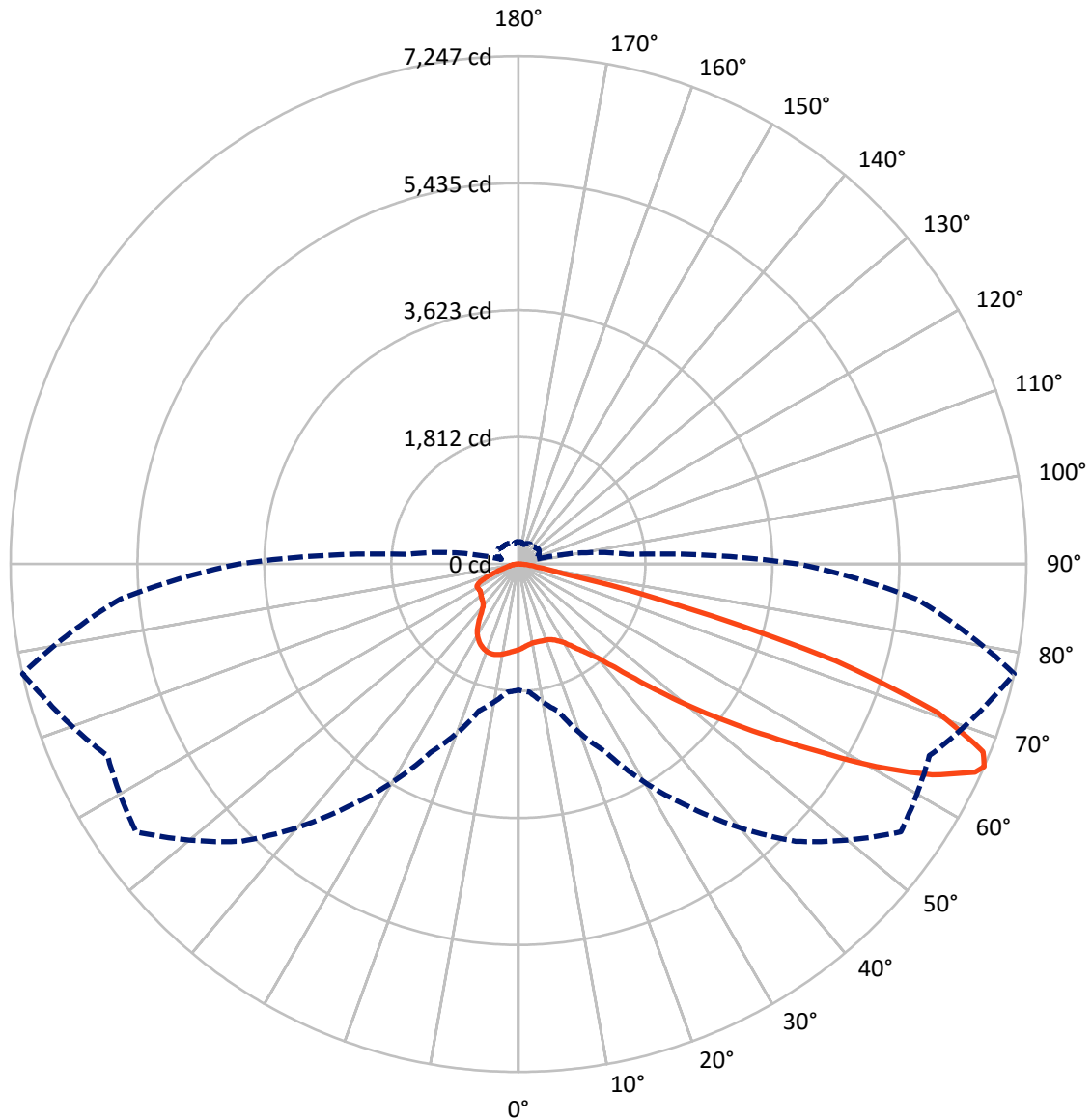
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P200196  
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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
<b>House Side</b>	Lumens	1462.6	0.0	1462.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	7098.5	0.0	7098.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	8561.1	0.0	8561.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.3
10°-20°	307.5	3.6
20°-30°	524.8	6.1
30°-40°	840.1	9.8
40°-50°	1297.9	15.2
50°-60°	1840.8	21.5
60°-70°	2462.5	28.8
70°-80°	1069.4	12.5
80°-90°	109.1	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°	8561.1	100.0
0°-180°	8561.1	100.0



REPORT NUMBER: P200196

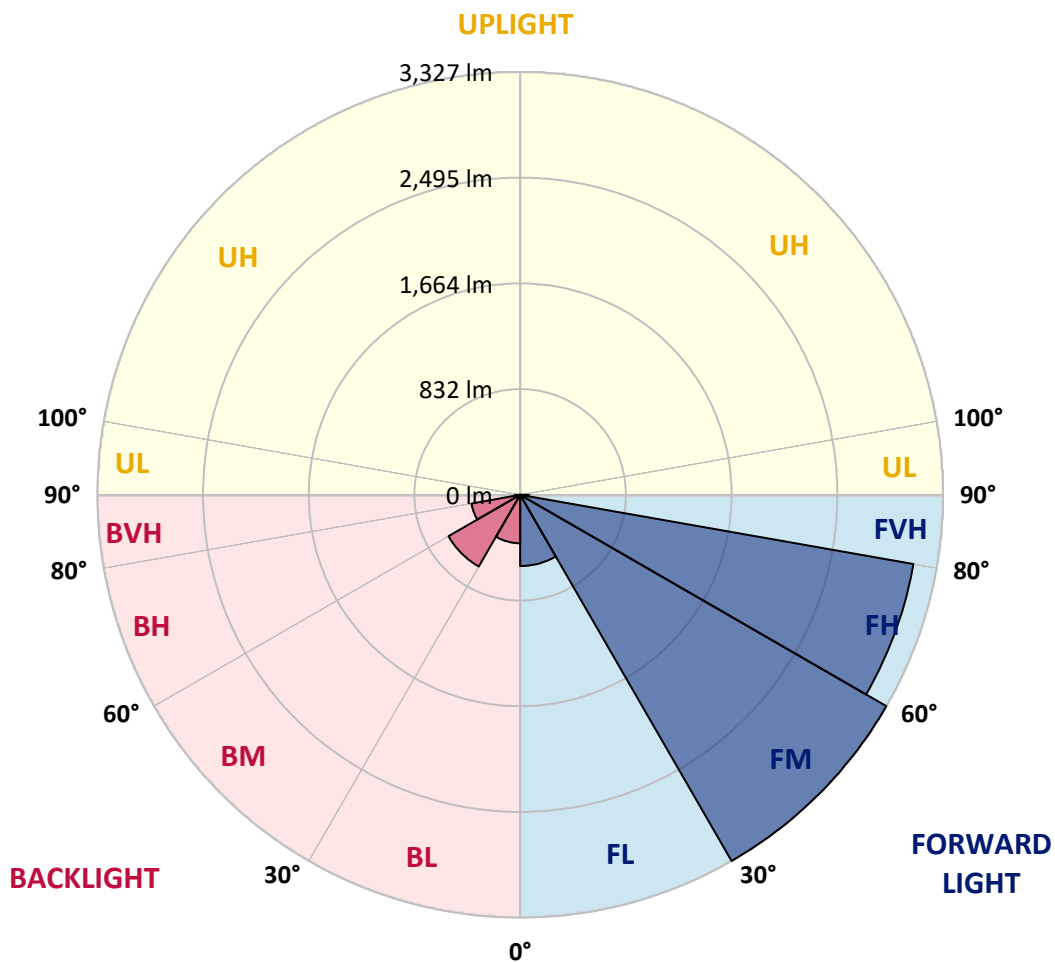
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.4	6.5			
FM	(30°-60°)	3327.3	38.9			
FH	(60°-80°)	3142.4	36.7			G2/5000
FVH	(80°-90°)	68.4	0.8			G1/100
BL	(0°-30°)	380.9	4.4	B1/500		
BM	(30°-60°)	651.5	7.6	B1/1000		
BH	(60°-80°)	389.5	4.5	B1/500		G1/500
BVH	(80°-90°)	40.7	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°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1079.2	1086.5	1092.6	1098.2	1109.6	1128.2	1149.6	1167.0	1192.0	1197.0	1210.3
5°	980.1	980.1	985.0	993.5	1008.8	1036.8	1065.9	1104.7	1159.3	1172.3	1207.9
7.5°	932.0	932.4	935.2	942.5	955.8	981.3	1013.3	1059.0	1133.0	1154.5	1215.2
10°	949.8	945.7	939.7	936.0	938.0	953.0	983.4	1034.3	1116.9	1144.4	1231.3
12.5°	1049.3	1041.6	1020.6	992.7	966.0	955.0	972.8	1022.6	1110.0	1141.9	1252.8
15°	1211.9	1208.7	1169.4	1111.5	1046.9	992.7	980.5	1018.1	1110.8	1144.8	1278.3
17.5°	1415.8	1411.4	1359.5	1275.4	1169.8	1064.3	1007.6	1021.8	1113.6	1149.6	1302.9
20°	1621.7	1607.9	1552.1	1451.8	1316.2	1161.8	1052.5	1031.1	1117.3	1154.9	1328.8
22.5°	1775.4	1764.1	1713.9	1616.4	1460.3	1274.6	1112.8	1047.3	1129.0	1170.3	1360.7
25°	1910.5	1911.3	1861.6	1767.2	1605.9	1394.4	1190.5	1090.6	1158.9	1201.8	1404.4
27.5°	2077.5	2067.8	2021.4	1927.9	1749.9	1515.3	1284.3	1150.0	1203.4	1246.7	1461.9
30°	2277.4	2270.5	2216.7	2110.8	1909.6	1645.1	1391.5	1219.2	1260.9	1305.8	1537.1
32.5°	2512.4	2509.2	2453.3	2317.0	2094.2	1798.0	1517.3	1310.6	1346.6	1393.2	1645.1
35°	2788.3	2788.7	2722.8	2558.9	2296.0	1976.0	1660.1	1428.3	1451.0	1499.5	1773.8
37.5°	2958.2	2978.8	2954.1	2787.0	2524.5	2175.0	1845.4	1584.4	1569.9	1618.8	1911.7
40°	2994.6	3019.6	3097.7	3012.8	2780.2	2394.3	2009.6	1734.5	1716.3	1776.1	2089.3
42.5°	2943.6	2978.4	3143.4	3203.3	3051.6	2664.5	2230.4	1957.4	1934.4	2014.8	2310.1
45°	2913.3	2939.1	3130.1	3302.4	3287.0	2969.9	2511.5	2237.3	2228.8	2334.4	2564.9
47.5°	2860.7	2884.1	3067.8	3325.4	3425.4	3249.8	2849.3	2579.6	2596.1	2734.4	2852.6
50°	2889.0	2898.7	2998.2	3266.8	3465.5	3454.9	3226.8	2976.0	3032.6	3205.3	3178.2
52.5°	2884.9	2910.0	2990.1	3170.5	3470.7	3581.6	3598.5	3418.1	3537.5	3735.6	3539.4
55°	2332.4	2378.5	2895.1	3146.3	3489.3	3705.7	3929.4	3884.0	4106.5	4337.5	3947.2
57.5°	2227.2	2256.3	2542.7	3197.2	3588.0	3942.8	4297.5	4396.9	4769.1	5037.3	4443.9
60°	2206.6	2242.6	2539.1	3259.5	3788.2	4329.0	4843.2	5017.9	5575.3	5869.0	5019.9
62.5°	2142.3	2181.1	2515.2	3251.4	4072.6	4863.4	5541.7	5678.1	6339.8	6625.4	5501.7
65°	1938.4	1974.8	2320.7	3120.8	4264.3	5433.7	6368.6	6283.2	6943.4	7158.2	5742.0
66°	1798.9	1834.5	2167.3	2967.1	4219.8	5595.5	6661.5	6470.5	7078.5	7246.8	5695.1
67.5°	1543.6	1571.6	1869.6	2622.8	3983.2	5640.9	6907.8	6611.2	7092.6	7152.1	5426.9
70°	975.3	983.4	1215.2	1810.6	3015.1	4892.2	6532.8	6261.8	6507.7	6346.7	4549.5
72.5°	423.1	420.3	583.3	921.1	1707.0	3282.5	5284.5	5166.8	5104.8	4737.6	3184.7
75°	235.4	238.7	303.0	427.6	693.8	1612.4	3457.0	3308.0	2793.2	2383.4	1444.1
77.5°	188.9	193.3	251.2	303.4	311.5	562.3	1617.6	1316.2	792.5	635.9	401.3
80°	149.2	157.3	219.2	236.2	209.9	231.8	522.6	417.9	313.5	287.7	208.0
82.5°	118.2	123.8	188.1	178.8	146.8	156.1	250.4	243.9	203.9	185.7	120.1
85°	84.9	95.4	154.6	134.7	96.3	105.2	166.2	159.4	116.9	95.4	53.0
87.5°	34.8	45.3	109.3	89.4	53.8	48.9	83.0	78.1	55.4	40.4	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200196  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1218.7	1228.5	1241.0	1248.7	1252.8	1255.6	1260.1	1259.7	1260.9	1261.3	1262.8
5°	1226.8	1243.1	1261.3	1266.1	1266.1	1261.7	1257.2	1249.9	1247.1	1246.3	1247.1
7.5°	1247.9	1265.7	1281.5	1275.8	1263.7	1245.9	1222.8	1202.6	1191.6	1188.1	1187.2
10°	1274.6	1296.1	1302.5	1281.0	1245.4	1202.6	1156.9	1123.7	1104.7	1099.5	1097.8
12.5°	1306.9	1327.2	1318.3	1273.0	1207.1	1137.8	1074.8	1021.8	982.1	969.7	968.8
15°	1342.5	1358.4	1327.2	1247.9	1149.6	1047.7	935.2	843.8	794.4	778.7	777.4
17.5°	1375.8	1383.8	1322.0	1204.2	1065.1	900.0	750.7	680.4	663.4	667.5	668.3
20°	1404.0	1404.0	1304.2	1141.5	932.0	705.4	611.2	610.0	622.2	634.2	636.7
22.5°	1435.2	1416.6	1273.0	1052.9	743.5	577.3	563.4	574.8	588.6	601.9	604.0
25°	1473.7	1426.7	1229.7	918.6	584.5	524.3	529.5	538.8	545.6	554.1	555.4
27.5°	1516.5	1439.6	1172.7	733.8	507.3	491.1	495.1	498.4	497.6	500.7	501.6
30°	1567.9	1454.6	1094.6	573.6	475.3	462.8	455.5	452.7	452.7	457.9	459.9
32.5°	1636.6	1476.8	982.5	491.4	459.9	442.5	419.1	408.6	412.6	430.4	434.4
35°	1712.3	1500.8	830.8	463.6	456.6	433.2	396.8	377.4	377.8	394.3	399.7
37.5°	1794.8	1531.1	664.6	458.3	464.0	433.6	385.1	358.4	347.5	347.5	349.5
40°	1900.3	1562.3	538.0	462.0	479.4	438.4	379.0	343.4	312.7	313.5	315.1
42.5°	2037.9	1588.9	470.0	469.6	498.0	445.0	378.6	323.6	296.9	315.1	331.7
45°	2190.9	1602.2	440.1	476.5	512.9	449.0	372.1	320.4	298.9	353.1	384.7
47.5°	2366.8	1594.6	423.5	478.9	516.6	449.0	364.9	328.1	313.1	409.0	445.8
50°	2559.7	1572.3	407.3	474.0	515.4	448.2	371.7	335.7	318.3	418.7	444.2
52.5°	2786.6	1553.8	390.4	463.6	506.9	443.8	379.8	332.5	301.8	380.6	398.4
55°	3045.5	1559.0	371.3	448.6	493.5	435.3	377.0	319.6	284.4	335.3	346.3
57.5°	3376.5	1621.7	348.7	429.5	475.3	421.0	366.9	313.5	279.1	304.2	310.7
60°	3745.7	1730.9	320.4	410.6	452.7	398.4	359.2	316.3	281.5	301.8	305.0
62.5°	4016.7	1794.4	296.1	382.7	421.9	373.4	349.5	320.0	288.0	310.3	309.4
65°	4090.4	1690.0	265.8	341.8	380.2	347.1	337.4	324.0	290.8	317.1	313.5
66°	3987.3	1577.6	252.4	322.8	359.2	334.1	331.3	323.6	289.6	317.9	311.9
67.5°	3736.8	1347.0	229.3	294.9	325.6	314.7	321.6	320.0	286.4	317.1	308.6
70°	3047.6	919.0	196.2	245.5	271.0	277.1	303.0	307.0	275.9	303.0	284.4
72.5°	2129.4	559.9	173.5	190.5	219.2	236.2	277.5	289.2	261.7	264.5	246.7
75°	1029.1	297.3	157.3	147.6	170.3	197.4	246.7	264.9	239.5	221.3	214.8
77.5°	320.8	181.6	133.5	119.0	133.5	159.4	206.3	232.2	213.2	185.3	182.8
80°	172.4	133.5	102.7	95.4	105.6	125.0	162.2	193.7	183.2	166.2	148.4
82.5°	113.6	86.5	76.0	74.1	80.5	95.4	120.5	160.6	160.6	142.4	103.5
85°	58.6	53.0	52.2	52.2	56.3	63.5	82.1	123.8	131.9	75.3	62.3
87.5°	29.2	30.4	28.3	29.6	31.5	31.1	39.3	62.3	74.5	45.7	38.1
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)