

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: P270106

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270106
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-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 3656.8 lumens
Efficiency: N/A
Efficacy: 107.6 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

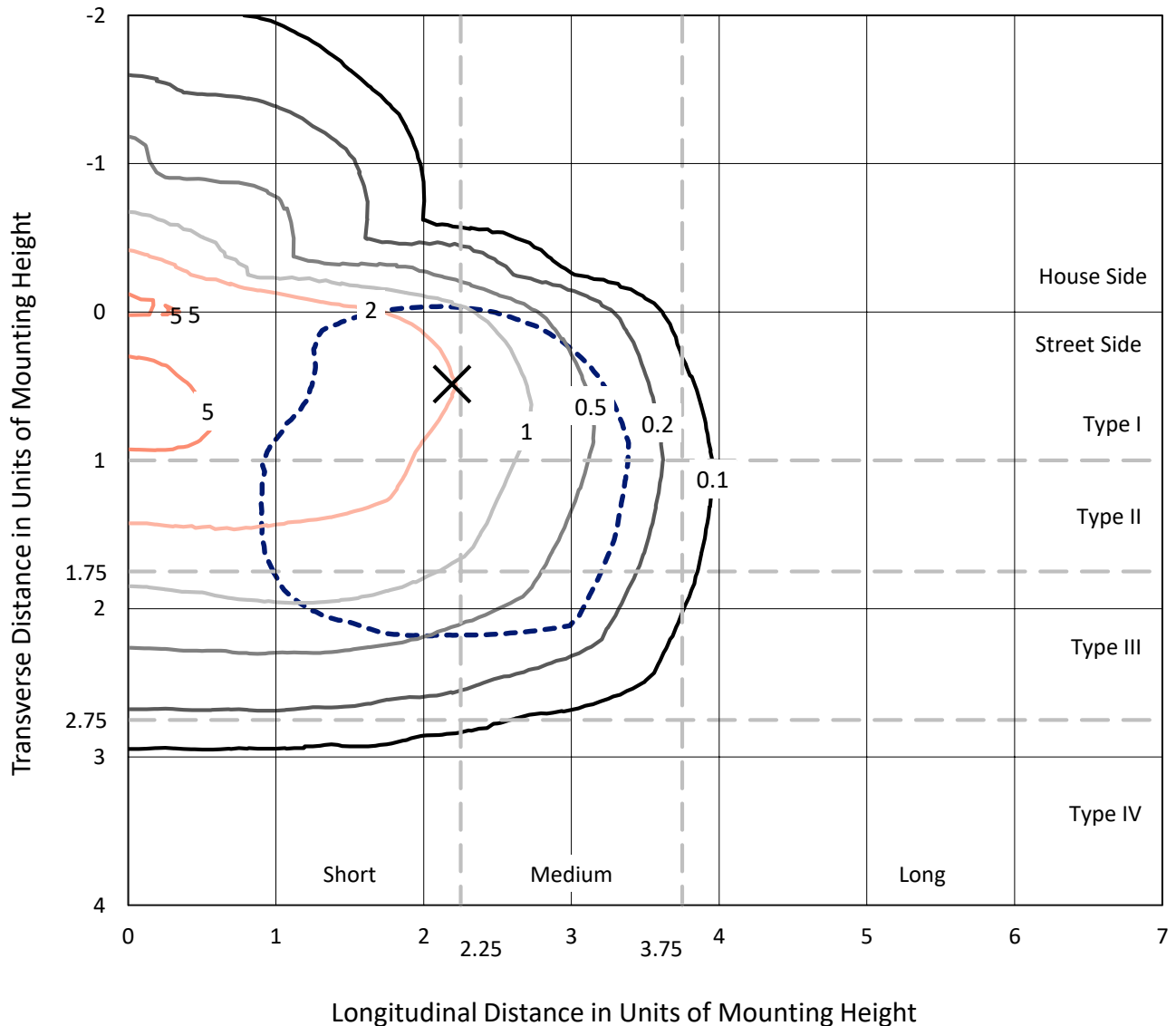
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

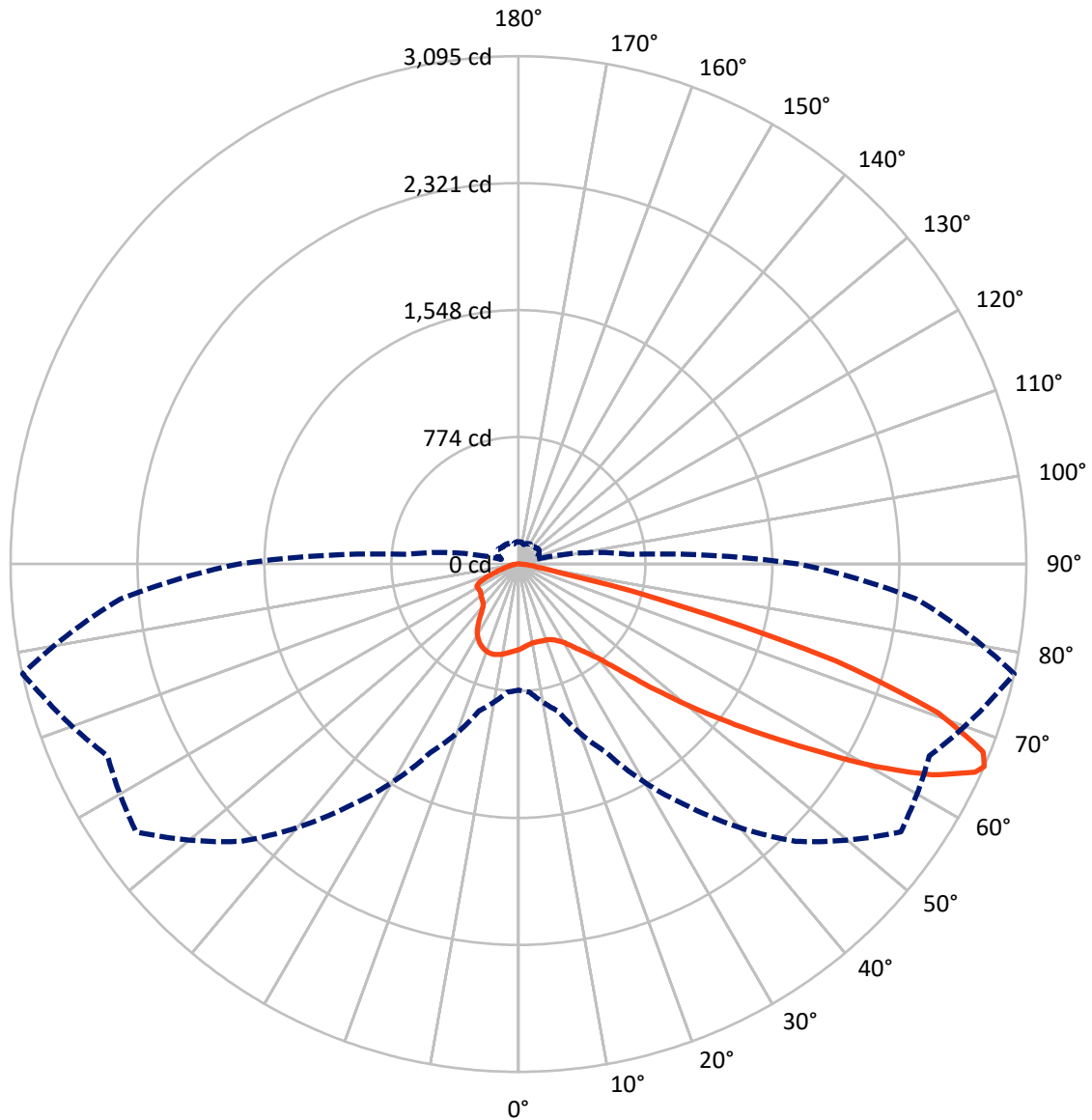
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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	624.7	0.0	624.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3032.0	0.0	3032.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	3656.8	0.0	3656.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.3
10°-20°	131.3	3.6
20°-30°	224.2	6.1
30°-40°	358.8	9.8
40°-50°	554.4	15.2
50°-60°	786.3	21.5
60°-70°	1051.8	28.8
70°-80°	456.8	12.5
80°-90°	46.6	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°	3656.8	100.0
0°-180°	3656.8	100.0



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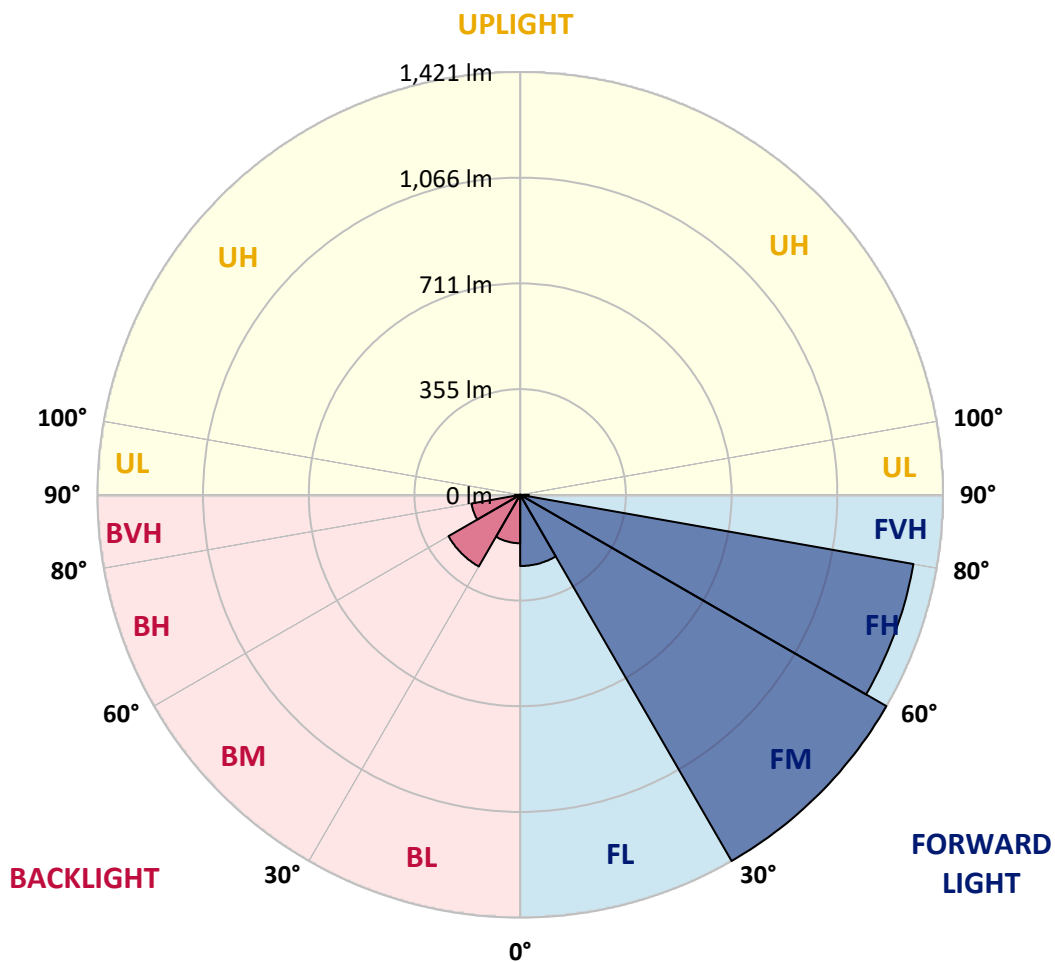
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.4	6.5			
FM	(30°-60°)	1421.2	38.9			
FH	(60°-80°)	1342.2	36.7			G1/1800
FVH	(80°-90°)	29.2	0.8			G1/100
BL	(0°-30°)	162.7	4.4	B1/500		
BM	(30°-60°)	278.3	7.6	B1/1000		
BH	(60°-80°)	166.4	4.5	B1/500		G1/500
BVH	(80°-90°)	17.4	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°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	461.0	464.1	466.7	469.1	473.9	481.9	491.0	498.5	509.2	511.3	517.0
5°	418.6	418.6	420.7	424.4	430.9	442.9	455.4	471.9	495.1	500.7	515.9
7.5°	398.1	398.3	399.5	402.5	408.3	419.1	432.8	452.3	484.0	493.2	519.0
10°	405.7	404.0	401.4	399.8	400.7	407.1	420.0	441.8	477.0	488.8	526.0
12.5°	448.2	444.9	435.9	424.1	412.6	407.9	415.6	436.8	474.1	487.7	535.1
15°	517.6	516.3	499.5	474.8	447.1	424.1	418.9	434.9	474.4	488.9	546.0
17.5°	604.7	602.9	580.8	544.7	499.7	454.5	430.4	436.4	475.7	491.0	556.5
20°	692.7	686.8	662.9	620.1	562.2	496.2	449.6	440.4	477.2	493.3	567.6
22.5°	758.3	753.6	732.0	690.4	623.8	544.5	475.3	447.3	482.2	499.9	581.2
25°	816.1	816.4	795.1	754.9	685.9	595.6	508.4	465.9	495.1	513.3	600.0
27.5°	887.3	883.2	863.4	823.5	747.5	647.2	548.6	491.2	514.1	532.5	624.4
30°	972.8	969.9	946.8	901.5	815.7	702.7	594.3	520.7	538.5	557.8	656.6
32.5°	1073.1	1071.8	1048.0	989.7	894.5	768.1	648.1	559.8	575.2	595.0	702.7
35°	1191.0	1191.1	1163.0	1093.0	980.7	844.0	709.0	610.0	619.7	640.5	757.6
37.5°	1263.6	1272.4	1261.8	1190.4	1078.3	929.0	788.2	676.8	670.6	691.5	816.6
40°	1279.1	1289.8	1323.2	1286.9	1187.6	1022.7	858.3	740.9	733.1	758.6	892.4
42.5°	1257.3	1272.2	1342.7	1368.2	1303.4	1138.2	952.7	836.1	826.2	860.7	986.8
45°	1244.3	1255.5	1336.9	1410.6	1404.1	1268.6	1072.8	955.7	952.0	997.0	1095.6
47.5°	1221.9	1231.9	1310.4	1420.5	1463.1	1388.2	1217.0	1101.9	1108.9	1168.1	1218.4
50°	1234.0	1238.2	1280.6	1395.3	1480.1	1475.7	1378.3	1271.2	1295.3	1369.1	1357.5
52.5°	1232.3	1243.0	1277.2	1354.3	1482.5	1529.7	1537.1	1460.0	1510.9	1595.7	1511.8
55°	996.3	1016.0	1236.5	1344.0	1490.4	1582.8	1678.4	1659.1	1754.1	1852.7	1685.9
57.5°	951.3	963.8	1086.1	1365.6	1532.6	1684.1	1835.6	1878.2	2037.1	2151.6	1898.1
60°	942.6	957.9	1084.6	1392.3	1618.0	1849.2	2068.7	2143.3	2381.4	2506.9	2144.2
62.5°	915.1	931.6	1074.4	1388.8	1739.5	2077.3	2367.0	2425.3	2708.0	2830.0	2350.0
65°	828.0	843.5	991.3	1333.0	1821.4	2321.0	2720.2	2683.8	2965.8	3057.5	2452.6
66°	768.4	783.6	925.8	1267.3	1802.4	2390.1	2845.3	2763.8	3023.4	3095.3	2432.6
67.5°	659.4	671.2	798.6	1120.3	1701.4	2409.4	2950.6	2823.9	3029.5	3054.9	2318.1
70°	416.6	420.0	519.0	773.4	1287.9	2089.5	2790.4	2674.6	2779.7	2710.9	1943.3
72.5°	180.7	179.6	249.1	393.5	729.2	1402.1	2257.2	2206.9	2180.5	2023.6	1360.3
75°	100.5	102.0	129.4	182.6	296.3	688.7	1476.6	1413.0	1193.0	1018.0	616.9
77.5°	80.7	82.6	107.3	129.5	133.0	240.1	690.9	562.2	338.5	271.6	171.4
80°	63.8	67.3	93.7	100.9	89.7	99.0	223.2	178.5	133.9	122.8	88.8
82.5°	50.5	52.9	80.4	76.4	62.7	66.7	106.9	104.2	87.1	79.3	51.3
85°	36.3	40.8	66.0	57.5	41.1	45.0	71.1	68.1	49.9	40.8	22.6
87.5°	14.8	19.4	46.7	38.2	23.0	20.9	35.4	33.4	23.6	17.2	11.2
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°	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1	521.1
2.5°	520.7	524.8	530.1	533.3	535.1	536.4	538.2	538.0	538.5	538.8	539.4
5°	524.0	531.0	538.8	540.8	540.8	538.9	537.0	533.9	532.7	532.3	532.7
7.5°	533.0	540.6	547.3	544.9	539.7	532.2	522.3	513.7	509.1	507.5	507.1
10°	544.5	553.6	556.3	547.2	532.0	513.7	494.2	480.1	471.9	469.6	468.9
12.5°	558.3	566.8	563.1	543.7	515.6	486.0	459.0	436.4	419.5	414.1	413.8
15°	573.5	580.1	566.8	533.0	491.0	447.5	399.5	360.5	339.4	332.6	332.1
17.5°	587.6	591.1	564.6	514.4	454.9	384.4	320.7	290.6	283.4	285.1	285.4
20°	599.7	599.7	557.0	487.6	398.1	301.3	261.0	260.5	265.7	270.9	272.0
22.5°	613.1	605.1	543.7	449.7	317.6	246.5	240.7	245.6	251.4	257.1	258.0
25°	629.4	609.4	525.2	392.4	249.7	223.9	226.2	230.1	233.1	236.7	237.2
27.5°	647.8	614.9	500.9	313.4	216.7	209.8	211.5	212.8	212.5	213.9	214.3
30°	669.7	621.4	467.6	245.0	203.0	197.7	194.5	193.3	193.3	195.6	196.5
32.5°	699.1	630.8	419.7	209.9	196.5	189.0	178.9	174.5	176.2	183.8	185.5
35°	731.3	641.0	354.8	198.0	195.1	185.1	169.5	161.2	161.4	168.4	170.7
37.5°	766.7	654.0	283.9	195.7	198.2	185.2	164.5	153.2	148.4	148.4	149.3
40°	811.7	667.3	229.8	197.3	204.7	187.3	161.9	146.7	133.6	133.9	134.6
42.5°	870.5	678.7	200.8	200.6	212.6	190.1	161.7	138.2	126.8	134.6	141.7
45°	935.8	684.3	187.9	203.6	219.1	191.8	158.9	136.8	127.6	150.8	164.3
47.5°	1011.0	681.1	180.9	204.5	220.6	191.8	155.9	140.1	133.8	174.6	190.4
50°	1093.3	671.7	174.0	202.5	220.1	191.4	158.8	143.4	135.9	178.8	189.7
52.5°	1190.3	663.6	166.7	198.0	216.5	189.5	162.3	142.0	128.9	162.6	170.2
55°	1300.9	665.9	158.6	191.6	210.8	185.9	161.1	136.5	121.5	143.3	148.0
57.5°	1442.1	692.7	148.9	183.5	203.0	179.8	156.7	133.9	119.3	130.0	132.7
60°	1599.9	739.4	136.8	175.4	193.3	170.2	153.4	135.1	120.2	128.9	130.3
62.5°	1715.7	766.4	126.5	163.4	180.2	159.4	149.3	136.6	123.0	132.6	132.1
65°	1747.1	721.9	113.5	146.0	162.4	148.2	144.1	138.3	124.2	135.5	133.9
66°	1703.2	673.8	107.8	137.9	153.4	142.7	141.6	138.2	123.7	135.8	133.2
67.5°	1596.1	575.4	97.9	125.9	139.1	134.4	137.4	136.6	122.3	135.5	131.8
70°	1301.7	392.6	83.8	104.9	115.8	118.4	129.4	131.2	117.8	129.4	121.5
72.5°	909.5	239.1	74.1	81.3	93.7	100.9	118.5	123.5	111.8	113.0	105.4
75°	439.5	126.9	67.3	63.1	72.8	84.4	105.4	113.2	102.3	94.6	91.7
77.5°	137.0	77.6	57.0	50.8	57.0	68.1	88.1	99.2	91.1	79.1	78.1
80°	73.7	57.0	43.9	40.8	45.1	53.4	69.3	82.8	78.2	71.1	63.4
82.5°	48.5	36.9	32.5	31.6	34.3	40.8	51.6	68.6	68.6	60.8	44.2
85°	25.1	22.6	22.3	22.3	24.0	27.1	35.1	52.9	56.3	32.2	26.6
87.5°	12.5	12.9	12.0	12.7	13.5	13.3	16.8	26.6	31.7	19.5	16.2
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)