

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: P270070

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270070  
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: GPC-AF-02-LED-E1-T3R-7027-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 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: 7270.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

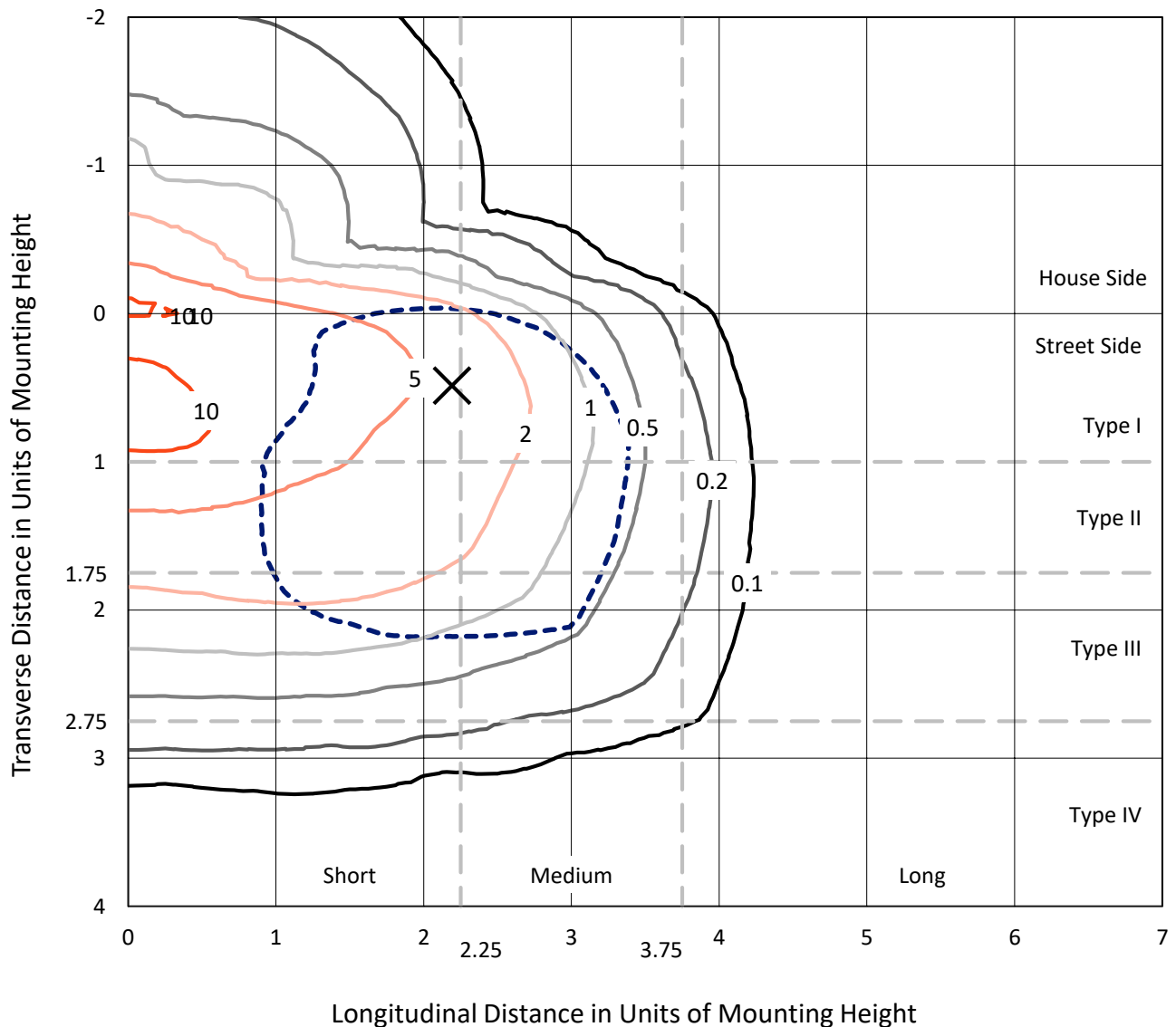


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### Iso-Footcandle Lines of Horizontal Illumination

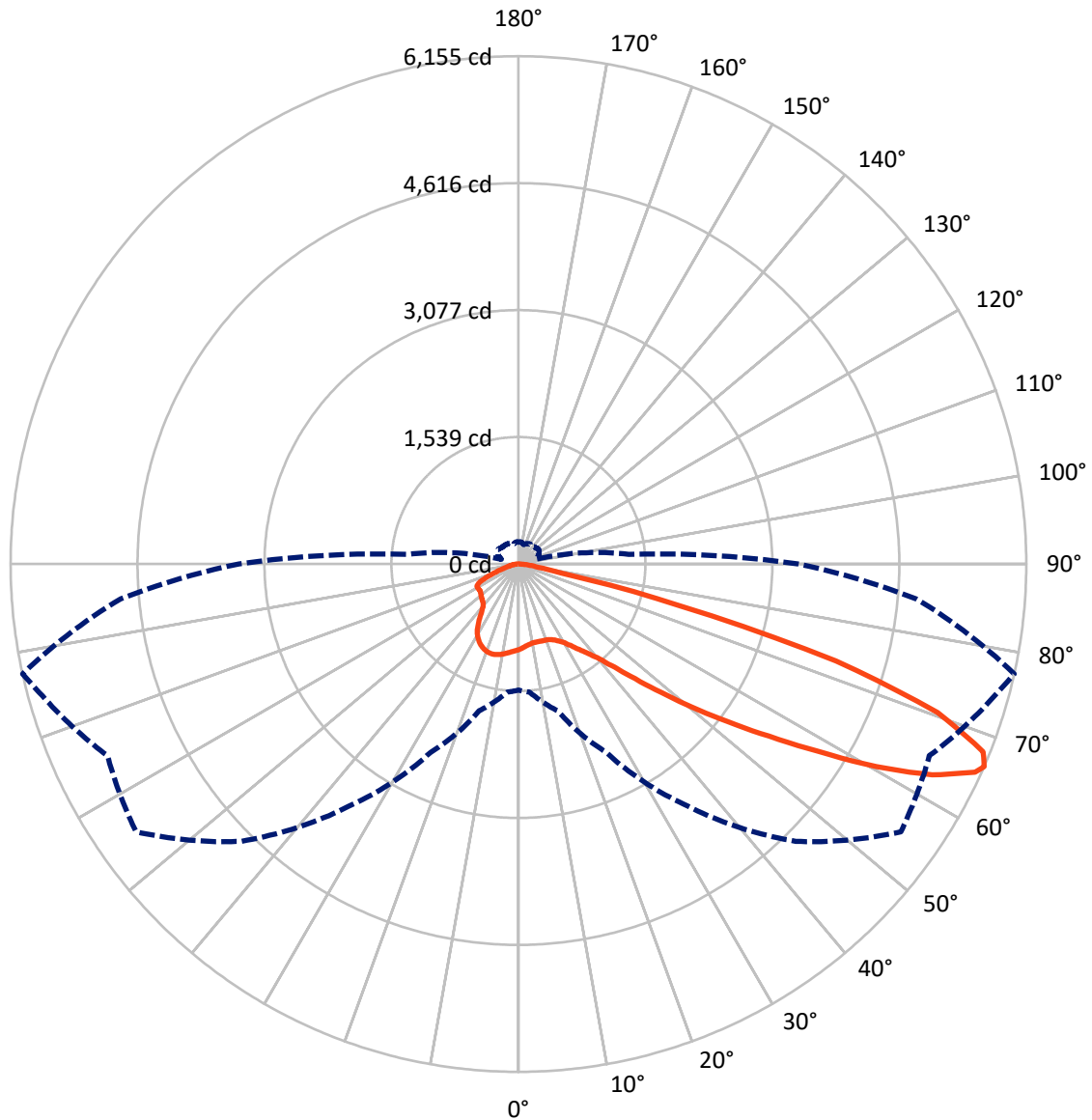
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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
<b>House Side</b>	Lumens	1242.2	0.0	1242.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	6028.7	0.0	6028.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	7270.8	0.0	7270.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	1.3
10°-20°	261.2	3.6
20°-30°	445.7	6.1
30°-40°	713.5	9.8
40°-50°	1102.3	15.2
50°-60°	1563.4	21.5
60°-70°	2091.4	28.8
70°-80°	908.3	12.5
80°-90°	92.6	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°	7270.8	100.0
0°-180°	7270.8	100.0



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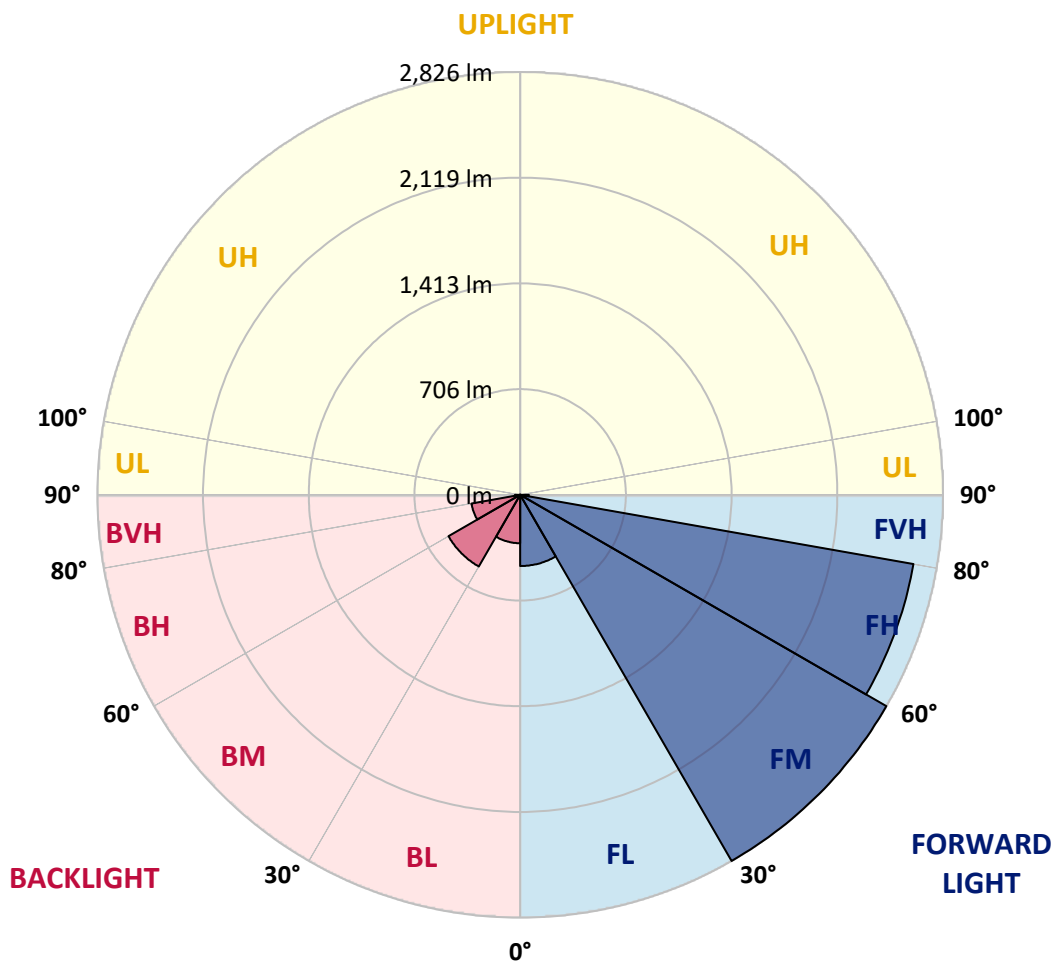
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.9	6.5			
FM	(30°-60°)	2825.8	38.9			
FH	(60°-80°)	2668.8	36.7			G2/5000
FVH	(80°-90°)	58.1	0.8			G1/100
BL	(0°-30°)	323.5	4.4	B1/500		
BM	(30°-60°)	553.3	7.6	B1/1000		
BH	(60°-80°)	330.8	4.5	B1/500		G1/500
BVH	(80°-90°)	34.5	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°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	916.6	922.7	927.9	932.7	942.3	958.1	976.4	991.1	1012.4	1016.5	1027.9
5°	832.4	832.4	836.5	843.8	856.9	880.5	905.2	938.2	984.6	995.6	1025.9
7.5°	791.5	791.9	794.3	800.5	811.8	833.4	860.5	899.5	962.3	980.5	1032.1
10°	806.7	803.3	798.1	795.0	796.6	809.5	835.2	878.5	948.5	971.8	1045.7
12.5°	891.2	884.7	866.8	843.1	820.4	811.1	826.3	868.5	942.7	969.8	1064.0
15°	1029.3	1026.6	993.2	944.1	889.1	843.1	832.8	864.7	943.4	972.2	1085.6
17.5°	1202.4	1198.6	1154.6	1083.1	993.5	903.9	855.7	867.9	945.7	976.4	1106.5
20°	1377.2	1365.6	1318.2	1233.0	1117.9	986.7	894.0	875.7	948.9	980.8	1128.5
22.5°	1507.8	1498.3	1455.7	1372.8	1240.2	1082.5	945.0	889.4	958.9	993.9	1155.7
25°	1622.6	1623.2	1580.9	1501.0	1363.8	1184.1	1011.0	926.2	984.3	1020.7	1192.8
27.5°	1764.5	1756.1	1716.8	1637.3	1486.2	1286.9	1090.7	976.6	1022.0	1058.8	1241.5
30°	1934.1	1928.3	1882.6	1792.6	1621.9	1397.3	1181.8	1035.4	1070.8	1109.0	1305.4
32.5°	2133.7	2131.0	2083.6	1967.7	1778.6	1527.1	1288.6	1113.1	1143.6	1183.2	1397.3
35°	2368.0	2368.4	2312.3	2173.3	1950.0	1678.3	1409.9	1213.0	1232.3	1273.4	1506.5
37.5°	2512.3	2529.8	2508.8	2367.0	2144.1	1847.3	1567.3	1345.7	1333.3	1374.9	1623.5
40°	2543.2	2564.5	2630.9	2558.7	2361.1	2033.5	1706.7	1473.1	1457.7	1508.6	1774.4
42.5°	2500.0	2529.4	2669.7	2720.4	2591.7	2262.9	1894.3	1662.5	1642.8	1711.2	1962.0
45°	2474.2	2496.2	2658.4	2804.7	2791.7	2522.4	2133.0	1900.2	1892.9	1982.6	2178.4
47.5°	2429.6	2449.5	2605.4	2824.4	2909.2	2760.0	2419.9	2190.7	2204.9	2322.4	2422.6
50°	2453.6	2461.8	2546.3	2774.4	2943.1	2934.3	2740.4	2527.4	2575.5	2722.3	2699.1
52.5°	2450.1	2471.4	2539.5	2692.7	2947.6	3041.8	3056.2	2903.0	3004.3	3172.6	3006.0
55°	1980.9	2020.0	2458.8	2672.1	2963.4	3147.2	3337.2	3298.7	3487.7	3683.8	3352.2
57.5°	1891.6	1916.3	2159.5	2715.3	3047.2	3348.5	3649.9	3734.3	4050.4	4278.2	3774.1
60°	1874.0	1904.5	2156.4	2768.2	3217.3	3676.7	4113.2	4261.6	4735.1	4984.4	4263.4
62.5°	1819.3	1852.3	2136.2	2761.4	3458.8	4130.3	4706.5	4822.3	5384.4	5627.0	4672.5
65°	1646.2	1677.1	1970.9	2650.4	3621.6	4614.9	5408.8	5336.2	5897.0	6079.3	4876.5
66°	1527.7	1558.0	1840.6	2519.8	3583.9	4752.3	5657.4	5495.3	6011.6	6154.6	4836.7
67.5°	1310.9	1334.6	1587.8	2227.5	3382.8	4790.8	5866.7	5614.9	6023.7	6074.2	4608.9
70°	828.2	835.2	1032.1	1537.7	2560.8	4154.8	5548.2	5318.1	5526.9	5390.2	3863.8
72.5°	359.3	356.9	495.3	782.2	1449.8	2787.9	4488.0	4388.1	4335.5	4023.6	2704.6
75°	200.0	202.7	257.4	363.2	589.2	1369.3	2935.9	2809.4	2372.2	2024.2	1226.5
77.5°	160.4	164.2	213.3	257.6	264.6	477.4	1373.8	1117.9	673.0	540.1	340.7
80°	126.8	133.7	186.2	200.6	178.4	196.9	443.9	354.9	266.3	244.2	176.5
82.5°	100.3	105.1	159.8	151.9	124.8	132.6	212.7	207.1	173.2	157.7	102.0
85°	72.1	81.0	131.2	114.4	81.7	89.3	141.3	135.4	99.4	81.0	45.0
87.5°	29.6	38.4	92.7	75.9	45.8	41.6	70.4	66.4	47.2	34.3	22.4
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°	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	1035.0	1043.3	1054.0	1060.4	1064.0	1066.4	1070.2	1069.8	1070.8	1071.1	1072.5
5°	1041.9	1055.7	1071.1	1075.4	1075.4	1071.5	1067.7	1061.5	1059.1	1058.5	1059.1
7.5°	1059.8	1074.9	1088.3	1083.5	1073.3	1058.2	1038.5	1021.4	1012.1	1008.9	1008.3
10°	1082.5	1100.8	1106.3	1087.9	1057.8	1021.4	982.6	954.4	938.2	933.8	932.4
12.5°	1109.9	1127.2	1119.6	1081.1	1025.1	966.3	912.8	867.9	834.2	823.4	822.8
15°	1140.2	1153.7	1127.2	1059.8	976.4	889.9	794.3	716.7	674.6	661.3	660.3
17.5°	1168.3	1175.3	1122.7	1022.7	904.6	764.4	637.5	577.8	563.3	566.8	567.5
20°	1192.4	1192.4	1107.6	969.5	791.5	599.1	519.1	518.1	528.4	538.7	540.7
22.5°	1218.9	1203.1	1081.1	894.3	631.4	490.3	478.5	488.1	499.8	511.1	512.9
25°	1251.5	1211.6	1044.4	780.2	496.5	445.2	449.7	457.5	463.4	470.6	471.7
27.5°	1287.9	1222.7	996.0	623.2	430.7	417.1	420.4	423.2	422.6	425.3	425.9
30°	1331.6	1235.3	929.7	487.2	403.7	393.0	386.8	384.5	384.5	388.8	390.7
32.5°	1389.9	1254.3	834.4	417.4	390.7	375.9	355.9	346.9	350.3	365.5	368.9
35°	1454.3	1274.5	705.7	393.6	387.9	367.9	337.0	320.5	320.9	335.0	339.4
37.5°	1524.3	1300.2	564.5	389.2	394.0	368.2	327.1	304.3	295.2	295.2	296.8
40°	1614.0	1326.7	456.9	392.3	407.1	372.3	322.0	291.7	265.5	266.3	267.6
42.5°	1730.8	1349.4	399.1	398.8	422.9	377.8	321.6	274.8	252.2	267.6	281.7
45°	1860.6	1360.8	373.8	404.6	435.6	381.3	316.1	272.0	254.0	299.9	326.8
47.5°	2010.0	1354.3	359.7	406.8	438.7	381.3	309.8	278.7	265.9	347.4	378.5
50°	2174.0	1335.3	345.9	402.6	437.7	380.6	315.8	285.1	270.4	355.5	377.2
52.5°	2366.7	1319.5	331.6	393.6	430.5	376.8	322.6	282.3	256.2	323.3	338.4
55°	2586.5	1324.0	315.3	381.1	419.1	369.7	320.2	271.4	241.6	284.9	294.0
57.5°	2867.6	1377.2	296.1	364.8	403.7	357.6	311.6	266.3	237.1	258.4	263.8
60°	3181.2	1470.0	272.0	348.7	384.5	338.4	305.1	268.7	239.0	256.2	259.0
62.5°	3411.4	1524.0	251.4	324.9	358.3	317.1	296.8	271.7	244.6	263.6	262.8
65°	3473.9	1435.3	225.7	290.3	322.9	294.7	286.5	275.2	247.0	269.3	266.3
66°	3386.3	1339.8	214.3	274.2	305.1	283.8	281.3	274.8	246.0	270.0	264.9
67.5°	3173.6	1144.0	194.8	250.4	276.6	267.2	273.2	271.7	243.3	269.3	262.1
70°	2588.2	780.5	166.6	208.5	230.1	235.4	257.4	260.8	234.3	257.4	241.6
72.5°	1808.4	475.5	147.4	161.9	186.2	200.6	235.6	245.6	222.3	224.7	209.6
75°	874.1	252.6	133.7	125.5	144.6	167.7	209.6	225.0	203.3	187.9	182.4
77.5°	272.5	154.2	113.4	101.0	113.4	135.4	175.2	197.2	181.1	157.4	155.2
80°	146.3	113.4	87.2	81.0	89.7	106.2	137.8	164.6	155.6	141.3	126.1
82.5°	96.6	73.5	64.6	62.9	68.5	81.0	102.3	136.5	136.5	120.9	87.9
85°	49.9	45.0	44.3	44.3	47.8	54.0	69.8	105.1	112.0	63.9	52.9
87.5°	24.8	25.8	24.1	25.2	26.8	26.5	33.3	52.9	63.2	38.8	32.2
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)