

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: INVUE

Report Number: P401803

Luminaire Tested: **ENT-SA1F-727-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1F-727-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5003 lumens
Efficiency: N/A
Efficacy: 75.7 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

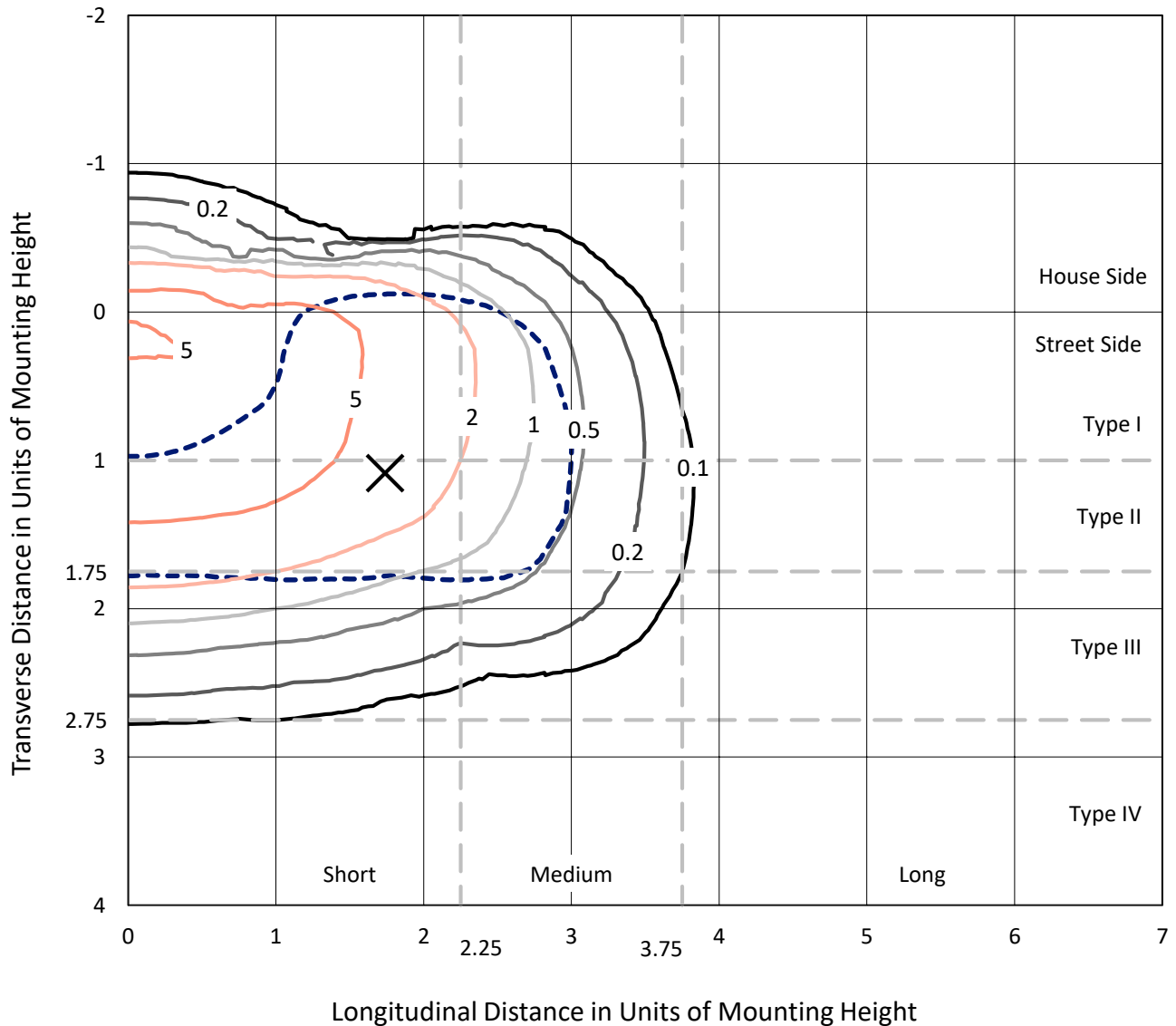
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

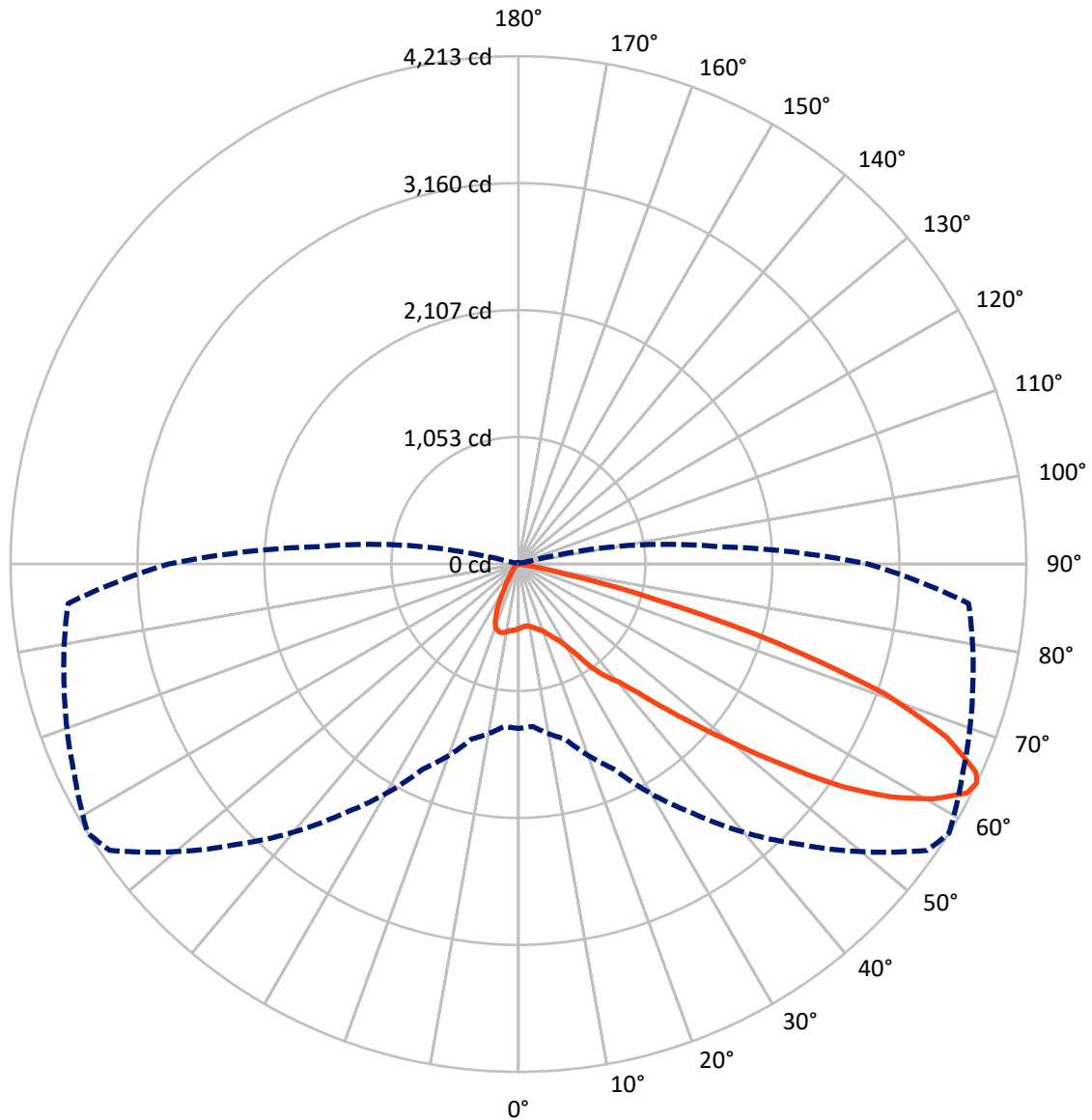


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	596.5	0.0	596.5
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	4406.6	0.0	4406.6
	% Fixture	88.1	0.0	88.1
Total	Lumens	5003.0	0.0	5003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.0
10°-20°	147.6	3.0
20°-30°	265.2	5.3
30°-40°	464.9	9.3
40°-50°	850.1	17.0
50°-60°	1454.3	29.1
60°-70°	1410.8	28.2
70°-80°	349.4	7.0
80°-90°	10.0	0.2
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°	5003.0	100.0
0°-180°	5003.0	100.0



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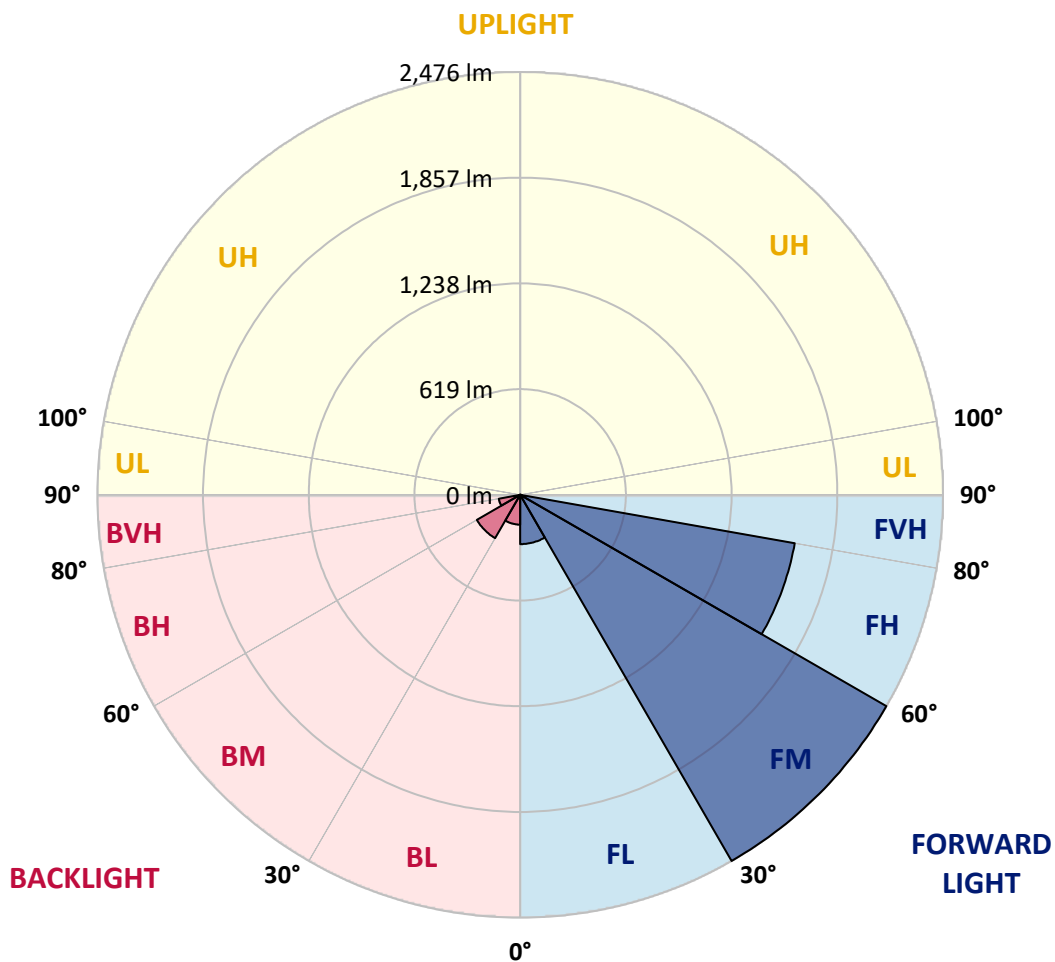
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.9	5.8			
FM	(30°-60°)	2476.4	49.5			
FH	(60°-80°)	1632.8	32.6			G1/1800
FVH	(80°-90°)	8.4	0.2			G0/10
BL	(0°-30°)	174.6	3.5	B1/500		
BM	(30°-60°)	292.9	5.9	B1/1000		
BH	(60°-80°)	127.4	2.5	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
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°	58°	65°	75°	85°
0°	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9
2.5°	513.7	513.7	515.5	516.5	519.2	522.0	525.7	526.6	528.5	533.1	535.0
5°	485.9	486.8	488.7	493.3	499.8	507.2	516.5	519.2	526.6	535.9	542.4
7.5°	474.8	475.7	478.5	484.1	492.4	503.5	514.6	518.3	528.5	543.3	552.6
10°	473.0	473.0	476.7	485.0	495.2	509.1	521.1	525.7	539.6	557.2	572.0
12.5°	473.0	473.0	477.6	487.8	499.8	517.4	534.1	540.5	556.3	578.5	597.0
15°	481.3	483.1	485.9	492.4	506.3	525.7	548.9	556.3	575.7	602.5	625.7
17.5°	540.5	538.7	529.4	521.1	518.3	535.0	562.7	572.9	601.6	635.9	660.9
20°	655.3	654.4	637.7	597.0	560.9	551.6	584.0	596.1	637.7	683.1	701.6
22.5°	794.1	798.8	772.8	718.2	644.2	597.0	615.5	632.2	685.8	740.5	751.6
25°	932.0	937.6	913.5	845.0	754.3	672.0	659.0	673.8	734.9	789.5	784.9
27.5°	1094.9	1090.3	1066.3	988.5	883.0	772.8	717.3	720.1	767.3	828.4	813.6
30°	1214.3	1207.9	1184.7	1132.0	1032.9	907.1	800.6	792.3	806.2	873.7	858.0
32.5°	1323.6	1328.2	1310.6	1240.3	1146.8	1045.0	925.6	903.4	897.8	955.2	929.3
35°	1431.9	1430.9	1424.4	1362.4	1270.8	1174.5	1074.6	1058.9	1057.0	1112.5	1042.2
37.5°	1561.4	1555.0	1542.9	1480.0	1406.9	1315.2	1208.8	1183.8	1179.2	1190.3	1107.9
40°	1700.3	1708.6	1689.2	1623.4	1543.8	1475.4	1326.3	1288.4	1256.9	1289.3	1236.6
42.5°	1906.7	1913.1	1878.9	1833.6	1730.8	1666.9	1516.1	1464.2	1449.4	1498.5	1439.3
45°	2165.8	2153.8	2130.7	2099.2	2014.0	1916.9	1759.5	1710.5	1694.7	1778.9	1681.8
47.5°	2367.6	2365.8	2366.7	2360.2	2347.2	2230.6	2043.7	2010.3	1994.6	2115.8	2008.5
50°	2495.3	2502.7	2534.2	2614.7	2674.0	2624.9	2405.6	2364.8	2352.8	2478.7	2333.4
52.5°	2591.6	2609.2	2661.9	2821.1	3010.9	3027.5	2846.1	2788.7	2761.0	2796.1	2594.4
55°	2640.6	2649.0	2729.5	2964.6	3261.7	3381.1	3305.2	3257.1	3145.1	3078.4	2900.7
57.5°	2525.9	2512.9	2651.8	2950.7	3391.3	3666.2	3698.6	3644.0	3464.4	3412.6	3272.8
60°	2225.1	2219.5	2375.9	2735.1	3278.4	3732.8	3990.1	3955.9	3791.1	3668.0	3536.6
62.5°	1697.5	1706.7	1872.4	2238.0	2875.7	3541.2	4152.1	4179.9	4004.9	3821.7	3731.9
64°	1363.4	1352.3	1504.0	1876.1	2523.1	3285.8	4140.1	4213.2	4069.7	3902.2	3749.5
65°	1144.9	1120.9	1266.2	1603.1	2225.1	3100.7	4054.9	4172.5	4074.4	3921.6	3685.6
67.5°	602.5	615.5	677.5	973.7	1502.2	2344.5	3651.4	3829.1	3868.9	3656.0	3211.7
70°	270.3	272.1	311.9	497.0	831.2	1520.7	2936.8	3224.7	3246.9	3003.5	2326.9
72.5°	89.8	90.7	137.9	199.0	348.9	704.4	1983.5	2245.4	2293.6	1947.4	1262.5
75°	55.5	57.4	73.1	107.4	162.0	246.2	1005.2	1182.9	1193.1	863.6	459.1
77.5°	35.2	37.0	44.4	63.9	88.9	93.5	329.5	398.9	451.7	311.0	142.5
80°	22.2	22.2	28.7	38.9	46.3	39.8	89.8	118.5	142.5	104.6	48.1
82.5°	8.3	8.3	14.8	21.3	19.4	13.9	24.1	31.5	54.6	51.8	23.1
85°	0.0	0.0	0.9	1.9	0.9	1.9	4.6	6.5	10.2	14.8	7.4
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9	1.9	1.9	1.9
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°	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9	535.9
2.5°	537.8	539.6	543.3	544.2	545.2	542.4	545.2	542.4	544.2	544.2	544.2
5°	546.1	548.9	551.6	552.6	551.6	545.2	547.0	542.4	541.5	541.5	541.5
7.5°	557.2	560.0	564.6	561.8	556.3	547.0	546.1	539.6	536.8	536.8	537.8
10°	577.6	580.3	582.2	576.6	565.5	551.6	541.5	527.6	521.1	518.3	518.3
12.5°	603.5	606.2	605.3	596.1	575.7	547.0	518.3	491.5	472.0	464.6	457.2
15°	631.2	634.9	633.1	613.7	574.8	523.9	468.3	405.4	366.5	341.5	336.9
17.5°	663.6	667.3	658.1	622.9	560.9	474.8	369.3	284.1	227.7	206.4	205.5
20°	703.4	701.6	679.4	623.8	535.9	384.1	247.1	177.7	153.6	148.1	147.2
22.5°	748.8	740.5	699.7	618.3	467.4	261.0	159.2	140.7	137.9	136.1	136.1
25°	774.7	759.9	707.1	602.5	360.0	166.6	135.1	131.4	127.7	124.0	123.1
27.5°	795.1	772.8	709.9	550.7	239.7	127.7	122.2	118.5	112.9	107.4	106.4
30°	832.1	798.8	714.5	460.0	147.2	109.2	106.4	100.0	91.6	86.1	84.2
32.5°	898.7	850.6	733.1	344.3	107.4	96.3	88.9	80.5	71.3	65.7	65.7
35°	970.0	899.7	742.3	226.8	93.5	84.2	73.1	62.9	54.6	50.0	49.1
37.5°	1035.7	970.0	739.5	138.8	83.3	72.2	60.2	50.0	42.6	38.9	38.9
40°	1169.9	1093.1	701.6	95.3	73.1	61.1	49.1	38.9	34.2	31.5	31.5
42.5°	1361.5	1228.2	617.4	81.5	63.9	50.9	38.9	32.4	28.7	25.9	25.9
45°	1576.2	1377.2	492.4	73.1	55.5	42.6	32.4	26.8	23.1	22.2	22.2
47.5°	1857.6	1557.7	361.9	65.7	48.1	36.1	26.8	22.2	20.4	19.4	19.4
50°	2103.8	1704.0	247.1	57.4	42.6	30.5	23.1	20.4	18.5	17.6	17.6
52.5°	2327.8	1805.8	162.9	50.0	37.9	25.0	21.3	18.5	17.6	16.7	16.7
55°	2591.6	1883.5	110.1	43.5	33.3	23.1	20.4	18.5	16.7	16.7	15.7
57.5°	2815.6	1929.8	78.7	37.0	29.6	21.3	19.4	17.6	15.7	14.8	14.8
60°	2946.1	1875.2	57.4	32.4	25.9	19.4	17.6	15.7	14.8	13.9	13.9
62.5°	2982.2	1769.7	44.4	27.8	22.2	17.6	15.7	13.9	13.0	12.0	12.0
64°	2898.9	1656.8	37.9	24.1	19.4	15.7	14.8	13.0	11.1	9.3	9.3
65°	2781.3	1552.2	34.2	22.2	17.6	14.8	13.9	12.0	9.3	7.4	7.4
67.5°	2317.6	1237.5	27.8	18.5	13.9	13.0	11.1	9.3	6.5	4.6	4.6
70°	1645.7	865.4	21.3	14.8	12.0	12.0	10.2	7.4	3.7	1.9	1.9
72.5°	871.0	449.8	17.6	12.0	9.3	9.3	8.3	4.6	2.8	1.9	0.9
75°	304.5	148.1	14.8	10.2	8.3	6.5	5.6	3.7	2.8	1.9	0.9
77.5°	92.6	49.1	13.0	10.2	7.4	5.6	6.5	5.6	5.6	3.7	2.8
80°	29.6	17.6	7.4	6.5	7.4	7.4	6.5	5.6	6.5	4.6	3.7
82.5°	11.1	6.5	2.8	3.7	3.7	4.6	4.6	3.7	2.8	0.9	0.0
85°	3.7	2.8	1.9	2.8	2.8	2.8	1.9	1.9	0.9	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.0	0.0	0.0
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)