

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: STREETWORKS

Report Number: P321335

Luminaire Tested: **GAN-SA1D-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

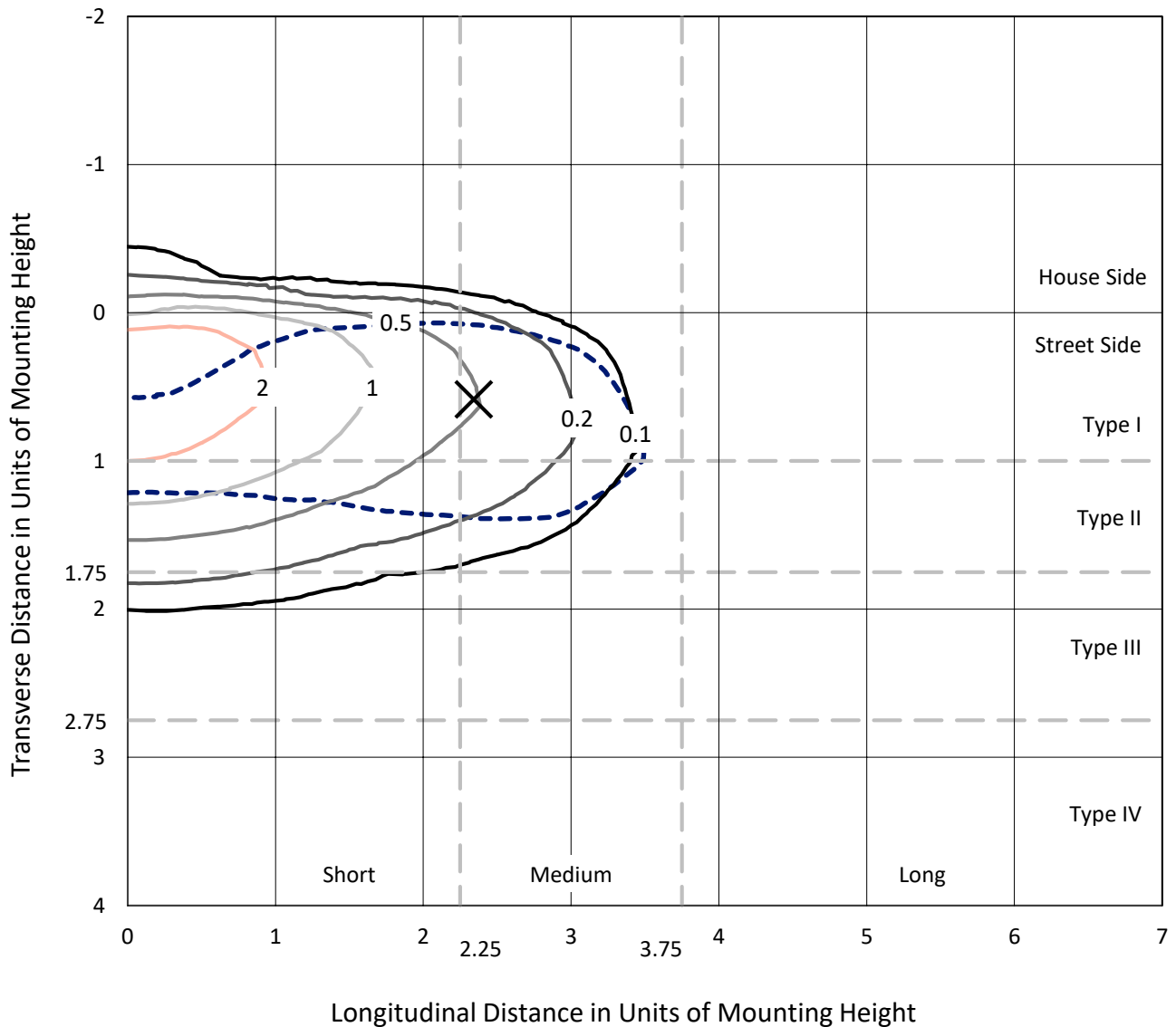
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

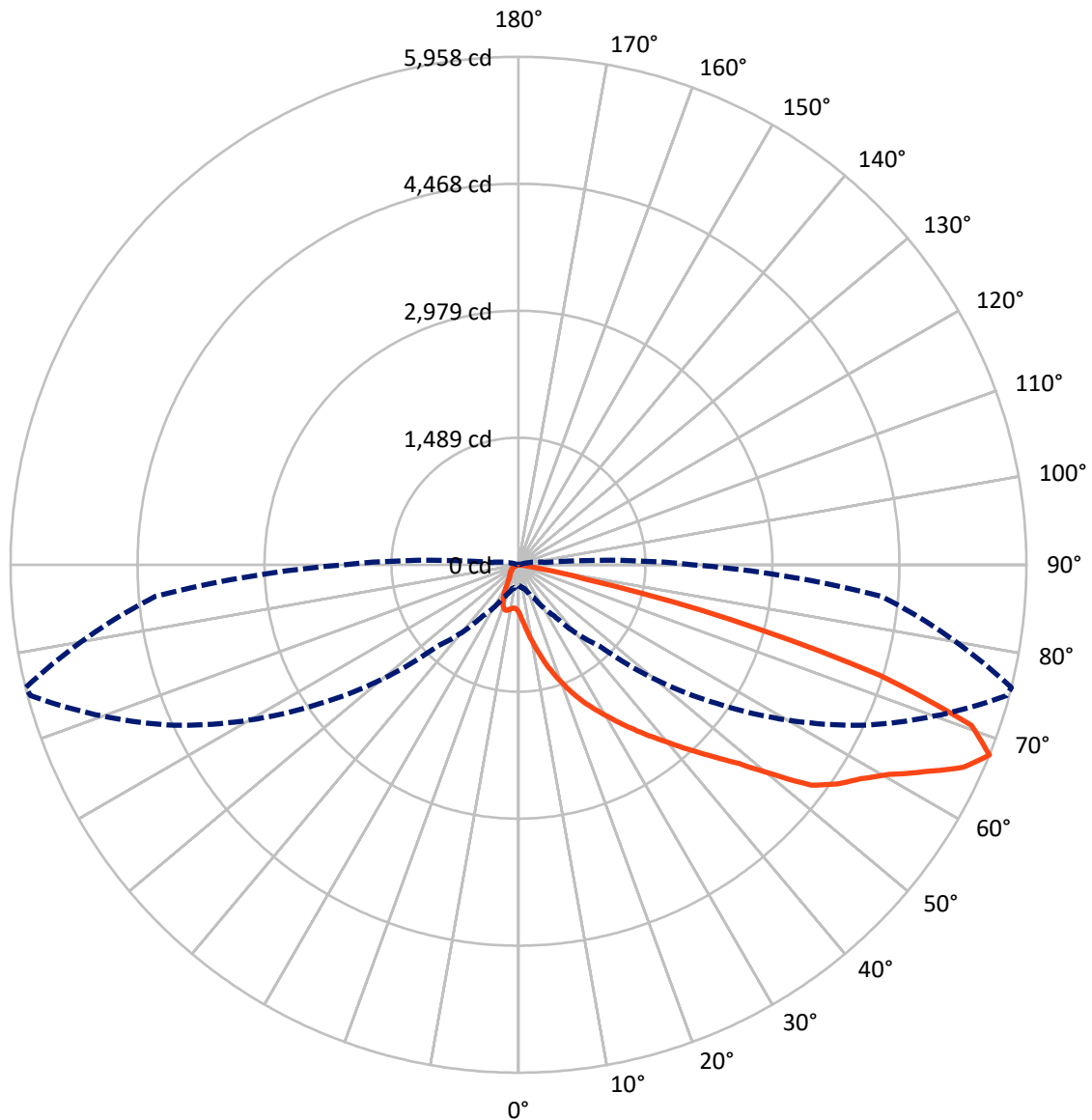
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.6	0.0	325.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6231.4	0.0	6231.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	6557.0	0.0	6557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.1
10°-20°	274.2	4.2
20°-30°	557.9	8.5
30°-40°	968.3	14.8
40°-50°	1368.1	20.9
50°-60°	1551.4	23.7
60°-70°	1286.8	19.6
70°-80°	466.1	7.1
80°-90°	15.1	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°	6557.0	100.0
0°-180°	6557.0	100.0

Coefficient of Utilization

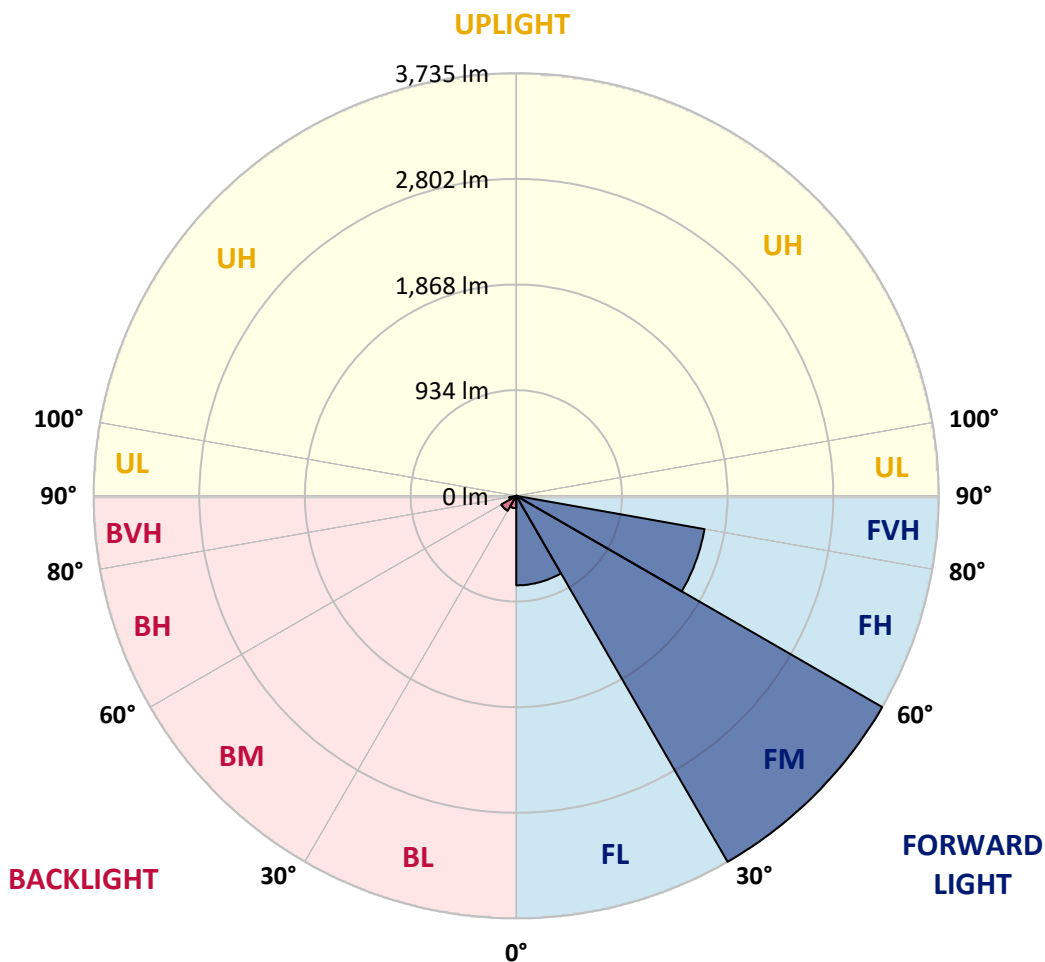


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.4	12.1			
FM (30°-60°)	3735.4	57.0			
FH (60°-80°)	1690.0	25.8			G1/1800
FVH (80°-90°)	14.6	0.2			G1/100
BL (0°-30°)	109.8	1.7	B0/110		
BM (30°-60°)	152.4	2.3	B0/220		
BH (60°-80°)	62.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2
2.5°	830.3	811.6	815.9	803.9	782.0	737.2	699.0	662.8	620.6	619.1	584.4
5°	1119.6	1103.8	1101.8	1077.4	1037.7	961.6	887.5	803.0	708.8	701.9	628.0
7.5°	1382.2	1369.6	1365.0	1336.0	1262.1	1188.0	1091.5	967.4	820.0	807.3	686.9
10°	1583.9	1577.9	1579.0	1558.3	1495.1	1426.2	1299.5	1141.2	946.1	926.6	757.6
12.5°	1736.8	1738.2	1748.5	1735.9	1700.6	1649.4	1514.1	1326.5	1085.7	1059.0	838.4
15°	1849.1	1856.3	1875.2	1891.0	1888.5	1844.2	1720.1	1514.7	1234.0	1204.4	928.3
17.5°	1921.8	1929.8	1957.4	1992.5	2024.6	2014.3	1918.9	1696.3	1384.0	1349.8	1024.5
20°	1985.6	1995.0	2024.6	2070.9	2130.9	2143.9	2081.2	1872.4	1533.6	1492.0	1123.9
22.5°	2123.8	2123.5	2141.6	2168.6	2225.8	2259.1	2219.4	2035.8	1681.6	1638.2	1225.4
25°	2373.7	2364.2	2357.9	2336.7	2349.3	2370.0	2347.9	2188.7	1830.4	1786.5	1328.2
27.5°	2670.8	2676.5	2625.4	2568.2	2524.0	2502.7	2466.5	2330.3	1973.5	1925.2	1428.8
30°	2984.2	2986.0	2925.6	2852.7	2755.3	2674.5	2611.9	2465.7	2120.6	2068.0	1526.5
32.5°	3267.0	3255.7	3196.0	3096.6	2973.6	2882.8	2752.7	2616.8	2276.3	2225.5	1635.1
35°	3491.0	3477.8	3405.1	3314.6	3187.1	3095.7	2939.1	2767.6	2440.1	2390.4	1743.9
37.5°	3654.8	3639.3	3564.6	3471.5	3361.5	3308.3	3155.5	2931.7	2618.8	2565.4	1858.6
40°	3711.7	3698.2	3651.4	3583.3	3494.8	3482.7	3385.0	3120.4	2813.3	2756.4	1988.4
42.5°	3677.8	3664.6	3647.9	3624.9	3588.2	3599.7	3601.7	3335.6	3029.3	2973.3	2131.8
45°	3543.3	3531.6	3548.8	3582.4	3628.1	3685.0	3799.3	3566.9	3270.7	3210.9	2297.6
47.5°	3345.4	3336.8	3384.5	3468.4	3601.9	3758.8	3980.0	3810.0	3541.6	3486.2	2504.4
50°	3063.8	3062.4	3157.8	3310.9	3516.3	3794.4	4166.8	4086.3	3918.0	3859.7	2792.0
52.5°	2625.4	2628.3	2815.9	3061.0	3366.1	3770.3	4286.9	4441.5	4355.8	4295.2	3041.1
55°	2207.9	2225.2	2358.2	2711.6	3135.7	3680.7	4328.3	4607.2	4597.5	4540.0	3179.6
57.5°	1799.1	1830.4	1958.6	2288.7	2799.2	3474.1	4305.6	4679.1	4777.3	4733.4	3362.3
60°	1356.1	1370.4	1518.1	1826.7	2367.4	3097.2	4140.9	4718.1	5023.2	4992.8	3627.5
62.5°	862.8	898.7	1029.7	1327.4	1843.4	2573.7	3863.4	4717.6	5331.0	5347.6	3969.7
65°	454.5	496.5	566.0	822.6	1266.7	1989.0	3445.9	4673.3	5708.5	5731.7	4237.2
67.5°	245.1	257.1	293.9	426.9	734.6	1347.5	2832.5	4455.0	5927.1	5957.9	4274.5
70°	179.3	185.9	199.7	236.2	369.8	782.6	2066.9	3959.9	5645.3	5633.8	3797.9
72.5°	137.6	148.0	158.3	173.0	212.6	417.7	1286.8	3100.9	4504.4	4428.5	2838.9
75°	108.6	110.3	125.0	138.2	159.5	237.9	571.5	1806.0	2749.2	2569.7	1472.2
77.5°	86.8	87.9	96.5	108.0	128.1	156.3	177.0	710.5	877.7	783.2	319.5
80°	51.4	54.3	71.8	83.3	106.3	98.5	64.6	154.3	137.0	124.1	53.7
82.5°	28.7	31.0	40.5	65.8	74.1	47.1	32.2	41.7	32.2	31.3	15.2
85°	0.0	1.4	26.1	40.8	30.2	10.3	13.5	13.8	9.5	8.9	6.0
87.5°	0.0	0.0	8.0	7.8	1.1	1.7	3.2	4.6	3.7	3.7	3.2
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°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2
2.5°	567.1	551.6	522.3	493.6	469.5	449.6	431.8	424.6	418.9	418.0	413.4
5°	592.4	561.1	505.1	459.1	428.4	406.5	387.9	376.4	367.5	364.0	360.9
7.5°	630.6	583.2	502.8	449.9	413.1	376.4	341.9	304.5	281.3	272.4	267.2
10°	677.2	612.5	511.4	447.3	383.0	305.4	248.2	200.8	181.6	175.3	173.5
12.5°	731.5	649.0	526.3	431.2	318.6	216.9	171.2	155.1	150.8	148.8	148.8
15°	793.8	689.0	537.0	384.7	235.6	164.1	148.2	140.8	136.2	133.6	133.9
17.5°	857.6	728.0	531.8	317.2	173.8	146.0	134.2	126.1	119.8	117.2	116.6
20°	922.0	764.2	503.1	236.2	147.1	132.4	119.2	110.3	104.0	101.4	100.8
22.5°	988.6	795.0	452.5	173.2	132.2	117.5	104.6	95.7	89.6	87.3	86.2
25°	1053.5	820.0	381.8	140.2	118.1	103.4	91.1	82.7	77.3	75.0	74.7
27.5°	1114.2	835.8	299.9	123.8	105.7	90.8	79.6	72.1	67.5	65.8	65.5
30°	1168.8	837.2	221.8	111.8	94.8	79.9	69.5	62.9	58.9	57.2	56.6
32.5°	1223.9	825.1	161.5	100.8	84.8	70.4	60.3	55.2	52.3	50.9	50.9
35°	1275.9	797.3	125.8	91.4	75.0	61.2	53.2	49.4	47.7	46.3	46.3
37.5°	1326.8	757.3	106.9	83.0	65.8	53.4	46.8	44.5	43.1	41.7	41.7
40°	1378.5	707.1	97.1	75.3	58.3	47.4	41.7	39.6	38.2	37.1	36.8
42.5°	1442.0	649.0	90.8	68.1	51.7	41.9	36.8	34.5	33.3	32.2	31.6
45°	1515.5	599.0	85.6	60.9	46.3	37.3	31.9	29.6	27.9	26.4	26.1
47.5°	1621.6	562.8	78.7	53.2	41.1	32.5	27.6	25.0	22.4	21.0	20.7
50°	1756.9	533.0	69.8	46.3	35.9	27.6	23.0	19.8	17.5	16.1	16.1
52.5°	1824.1	493.9	61.8	40.2	30.2	23.3	18.7	14.9	13.8	12.4	12.4
55°	1851.1	464.0	53.7	34.2	25.0	19.2	14.7	11.5	10.6	9.8	9.5
57.5°	1927.0	455.4	46.8	29.0	20.7	15.2	11.2	8.6	8.0	6.9	6.9
60°	2049.1	459.7	40.5	24.7	16.7	11.8	8.3	6.6	6.0	4.9	4.9
62.5°	2180.9	454.2	34.2	21.3	12.9	8.6	5.7	4.9	4.9	2.9	2.6
65°	2206.2	404.5	29.3	17.5	10.1	6.3	3.7	3.2	4.3	0.6	0.0
67.5°	2047.6	313.7	25.3	13.5	7.5	4.9	2.9	1.4	3.7	0.0	0.0
70°	1637.4	199.4	20.4	9.8	5.7	4.0	2.3	0.6	2.9	0.0	0.0
72.5°	1157.8	115.8	16.1	6.9	4.9	3.2	1.7	0.0	1.7	0.0	0.0
75°	585.5	61.8	10.1	5.2	3.7	2.3	1.1	0.0	0.3	0.0	0.0
77.5°	126.7	28.7	6.3	3.7	2.6	1.4	0.6	0.0	0.0	0.0	0.0
80°	27.6	12.6	4.0	2.3	1.4	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	6.6	2.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	3.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.1	0.3	0.3	0.0	0.0	0.0	0.0	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)