

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: P481681

Luminaire Tested: **IFLD-S-SA6A-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481681
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

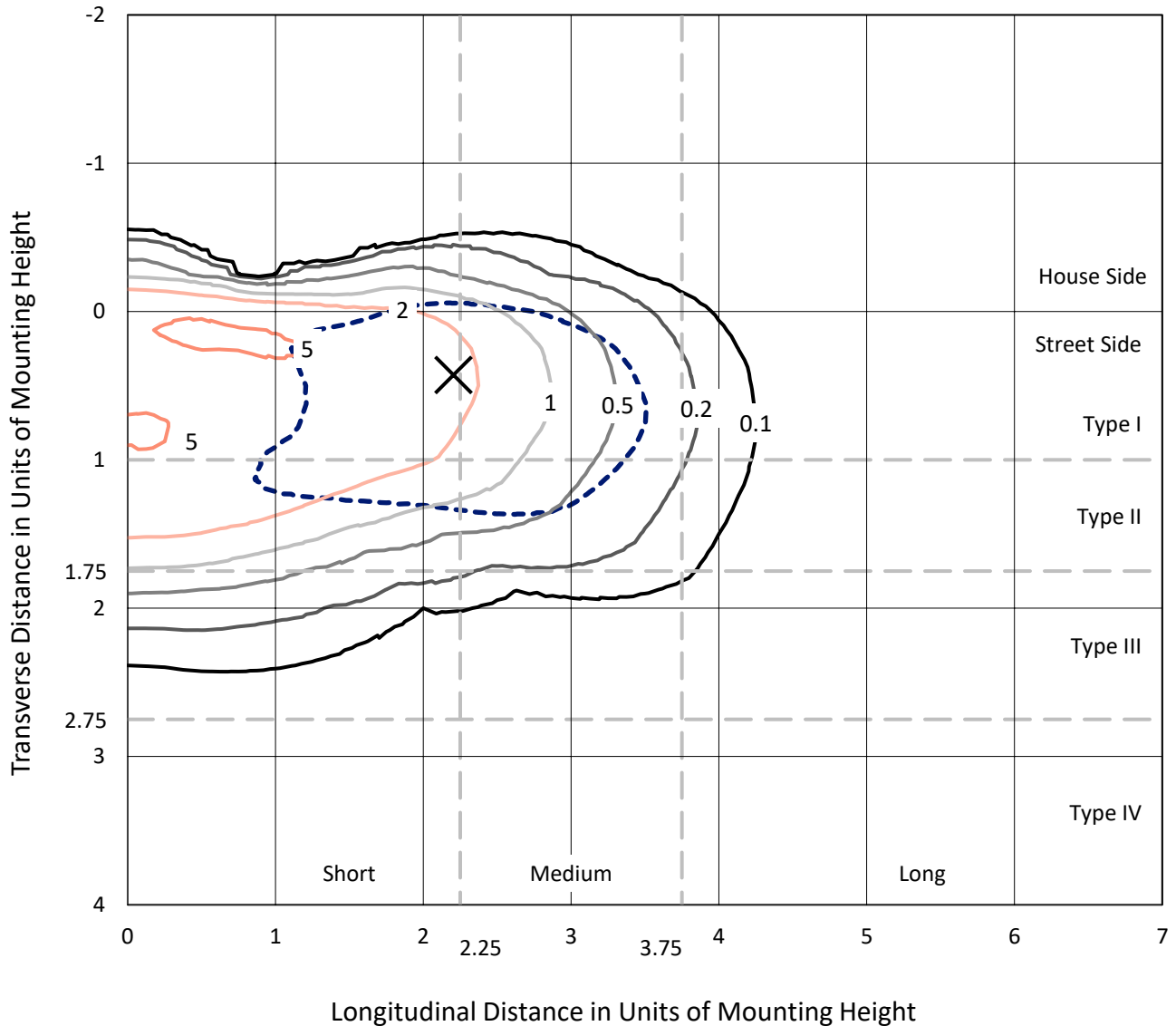
Lumens per Lamp: N/A
Luminaire Lumens: 19436.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
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

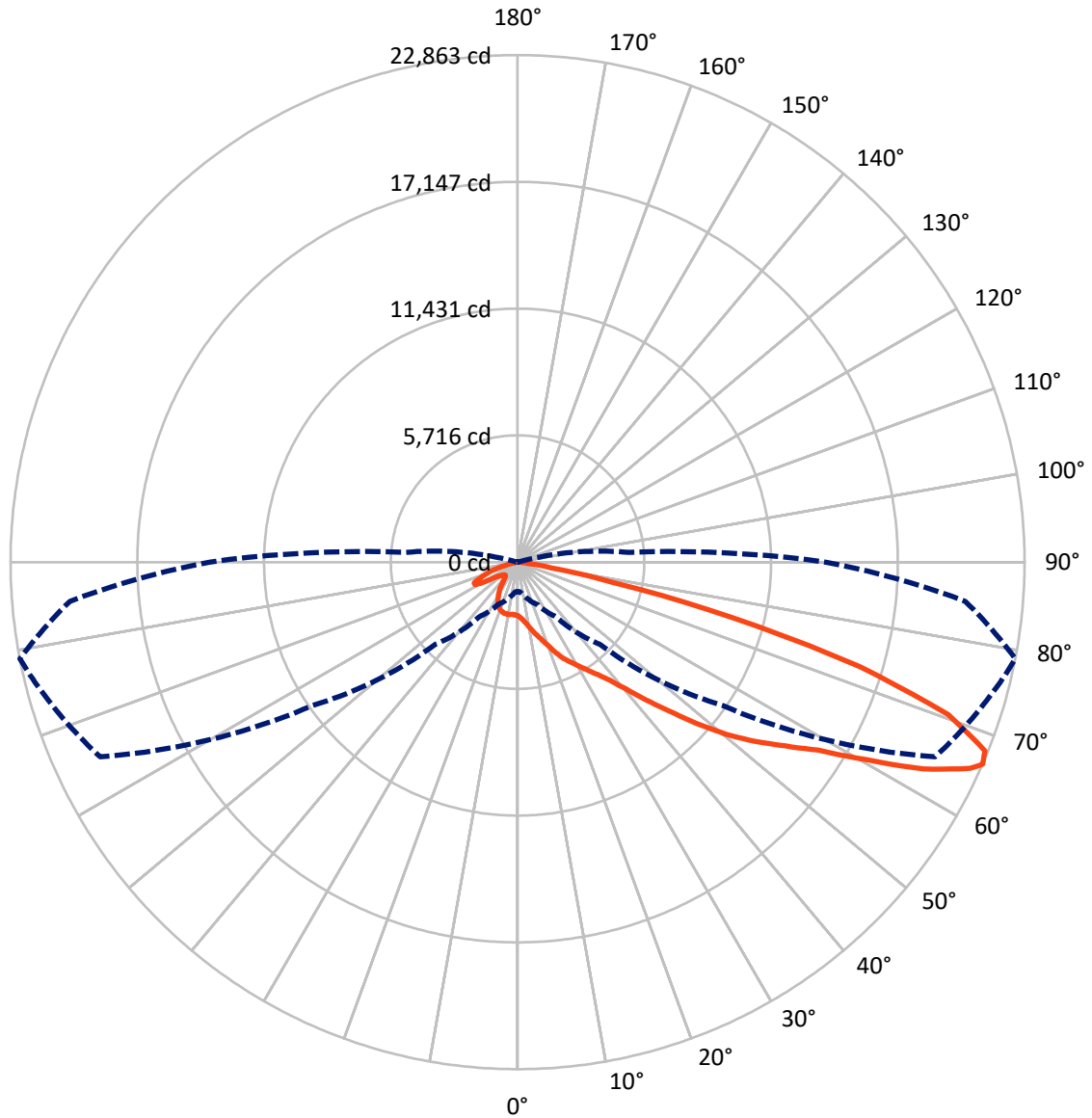
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.4	0.0	1459.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17977.1	0.0	17977.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	19436.5	0.0	19436.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	1.2
10°-20°	629.4	3.2
20°-30°	1045.6	5.4
30°-40°	1795.9	9.2
40°-50°	3253.5	16.7
50°-60°	5142.8	26.5
60°-70°	5233.2	26.9
70°-80°	1995.7	10.3
80°-90°	111.9	0.6
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°	19436.5	100.0
0°-180°	19436.5	100.0

Coefficient of Utilization

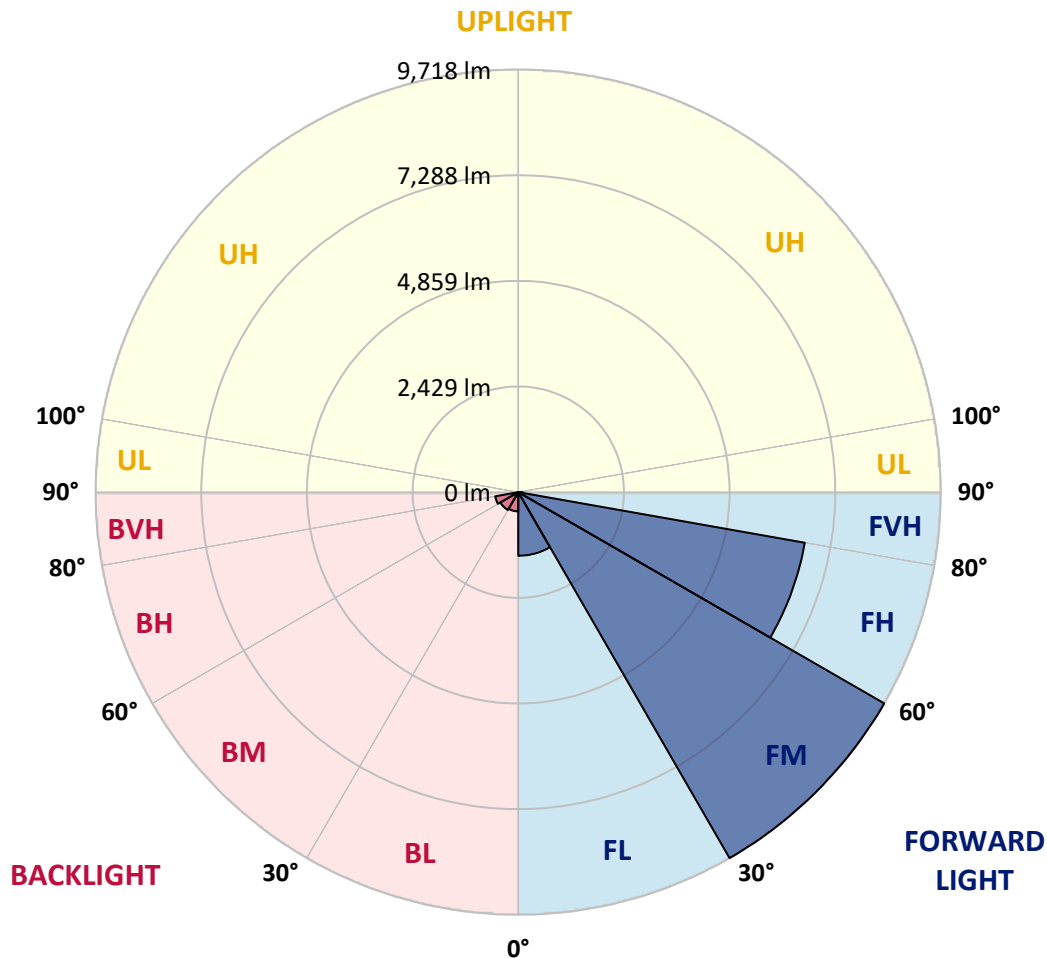


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.3	7.5			
FM (30°-60°)	9717.8	50.0			
FH (60°-80°)	6690.8	34.4			G3/7500
FVH (80°-90°)	106.2	0.5			G2/225
BL (0°-30°)	441.4	2.3	B1/500		
BM (30°-60°)	474.3	2.4	B1/1000		
BH (60°-80°)	538.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1
2.5°	2738.8	2735.8	2723.8	2702.8	2675.8	2666.8	2627.9	2573.9	2544.0	2511.0	2496.0
5°	2927.5	2912.5	2948.5	2933.5	2939.5	2867.6	2819.7	2780.7	2666.8	2621.9	2550.0
7.5°	2969.5	2984.5	2981.5	3005.4	3029.4	3056.4	3023.4	2966.5	2852.6	2786.7	2708.8
10°	2969.5	2963.5	2987.5	3020.4	3089.3	3149.3	3239.2	3164.2	3077.4	2999.4	2858.6
12.5°	2915.5	2906.6	2930.5	2999.4	3122.3	3245.2	3344.0	3415.9	3293.1	3230.2	3047.4
15°	2750.7	2741.7	2840.6	2963.5	3125.3	3326.1	3532.8	3649.7	3565.8	3466.9	3263.1
17.5°	2547.0	2559.0	2663.8	2867.6	3125.3	3365.0	3628.7	3883.4	3871.4	3745.6	3532.8
20°	2478.1	2487.1	2591.9	2738.8	3032.4	3392.0	3778.5	4138.1	4210.0	4060.2	3781.5
22.5°	2609.9	2600.9	2609.9	2699.8	2969.5	3368.0	3877.4	4428.7	4557.6	4440.7	4108.1
25°	3059.4	3053.4	2978.5	2840.6	2933.5	3314.1	3928.3	4620.5	4917.2	4809.3	4371.8
27.5°	3718.6	3694.6	3577.8	3290.1	3101.3	3347.0	4012.2	4806.3	5231.8	5108.9	4608.5
30°	4425.8	4368.8	4216.0	3856.4	3535.8	3469.9	4060.2	4944.1	5582.4	5426.6	4815.3
32.5°	4914.2	4989.1	4941.1	4575.6	4084.2	3754.5	4138.1	5117.9	5906.0	5804.1	5168.9
35°	5669.3	5756.2	5555.4	5231.8	4737.4	4207.0	4302.9	5258.8	6403.4	6232.6	5498.5
37.5°	6622.1	6688.1	6544.2	5930.0	5408.6	4764.4	4641.5	5552.4	6831.9	6751.0	5921.0
40°	7101.6	7419.2	7215.4	6661.1	6100.8	5543.4	5201.8	5897.0	7578.0	7512.1	6505.3
42.5°	7763.8	7922.6	7817.7	7407.2	6822.9	6376.4	5894.0	6568.2	8482.9	8482.9	7296.3
45°	8465.0	8471.0	8465.0	8129.4	7611.0	7380.2	6828.9	7410.2	9456.8	9564.7	8243.2
47.5°	9040.3	9220.1	9205.1	9004.3	8602.8	8515.9	7763.8	8369.1	10679.3	10868.1	9166.1
50°	9336.9	9537.7	9597.6	9702.5	9684.5	9867.3	8785.6	9480.8	11734.1	12198.5	10352.7
52.5°	9256.0	9271.0	9639.6	10053.1	10712.3	11224.7	10017.1	10742.3	12968.6	13427.1	11269.6
55°	8593.8	8536.9	9295.0	9768.4	11131.8	12054.7	11722.1	12315.4	13930.5	14628.7	12216.5
57.5°	7140.5	7155.5	7856.7	8818.5	10820.2	12384.3	13543.9	14371.0	15278.9	15983.0	13546.9
60°	4929.2	4911.2	5696.2	6807.9	8989.3	11770.0	14592.7	17034.8	17082.7	18080.6	15935.1
62.5°	2771.7	2777.7	3374.0	4323.9	6289.5	9618.6	14541.8	19863.4	19659.7	20534.6	18649.9
65°	1570.1	1609.1	2019.6	2562.0	3766.5	6457.3	12507.2	20990.1	21646.3	22425.4	20297.9
66°	1327.4	1354.4	1705.0	2115.5	3005.4	5237.8	11257.7	20771.4	22269.6	22862.9	20265.0
67.5°	1027.8	1063.7	1357.4	1678.0	2205.4	3625.7	9061.3	19683.7	22383.5	22731.0	19692.6
70°	704.2	728.1	952.9	1273.5	1507.2	1854.8	5417.6	16273.7	20309.9	20603.6	17115.7
72.5°	494.4	506.4	668.2	964.9	1159.6	1060.7	2687.8	11578.3	15542.6	16114.9	13313.2
75°	356.6	368.6	458.5	692.2	904.9	695.2	1231.5	7395.2	9531.7	9981.2	8018.5
77.5°	257.7	272.7	311.6	446.5	656.2	488.4	605.3	3862.4	4494.7	4416.8	3448.9
80°	155.8	170.8	230.7	287.7	479.4	344.6	332.6	1612.1	1594.1	1513.2	1084.7
82.5°	71.9	83.9	122.9	194.8	335.6	239.7	158.8	575.3	503.4	461.5	305.6
85°	21.0	27.0	71.9	146.8	170.8	116.9	95.9	197.8	206.8	176.8	101.9
87.5°	0.0	3.0	33.0	36.0	50.9	39.0	36.0	50.9	95.9	77.9	33.0
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°	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1	2418.1
2.5°	2442.1	2421.1	2370.2	2292.3	2223.4	2187.4	2136.5	2091.5	2067.5	2064.6	2061.6
5°	2502.0	2445.1	2322.2	2181.4	2076.5	1962.7	1884.8	1827.8	1773.9	1723.0	1752.9
7.5°	2582.9	2493.0	2292.3	2109.5	1881.8	1734.9	1597.1	1516.2	1468.3	1423.3	1417.3
10°	2708.8	2594.9	2271.3	1941.7	1681.0	1465.3	1324.4	1207.6	1141.6	1063.7	1093.7
12.5°	2879.6	2675.8	2193.4	1788.9	1453.3	1225.5	1024.8	836.0	731.1	650.2	653.2
15°	3050.4	2783.7	2121.5	1603.1	1246.5	946.9	653.2	524.4	494.4	476.4	482.4
17.5°	3218.2	2870.6	2010.6	1414.3	1009.8	602.3	476.4	449.5	434.5	416.5	416.5
20°	3421.9	2927.5	1872.8	1240.5	695.2	446.5	407.5	389.5	365.6	341.6	344.6
22.5°	3619.7	2975.5	1714.0	1018.8	467.4	386.5	341.6	317.6	296.6	272.7	272.7
25°	3817.5	2990.5	1507.2	731.1	377.6	308.6	266.7	233.7	212.7	191.8	194.8
27.5°	3952.3	2897.6	1312.4	467.4	302.6	233.7	185.8	158.8	140.8	119.9	119.9
30°	4030.2	2726.8	1102.7	329.6	227.7	158.8	110.9	83.9	65.9	50.9	47.9
32.5°	4108.1	2588.9	866.0	251.7	149.8	83.9	42.0	15.0	0.0	0.0	0.0
35°	4263.9	2433.1	581.3	140.8	50.9	3.0	0.0	0.0	0.0	0.0	0.0
37.5°	4362.8	2217.4	266.7	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4611.5	2109.5	65.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5016.1	2034.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5459.5	2004.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6049.8	2085.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6673.1	2304.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7356.3	2511.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7952.6	2759.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9049.3	3347.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11017.9	4500.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13235.3	5357.6	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14047.3	5336.7	56.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13903.5	5043.0	56.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13157.4	4479.7	50.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11299.6	3700.6	50.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8614.8	2882.6	47.9	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5198.8	1534.2	39.0	15.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2070.5	539.4	30.0	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	560.3	161.8	18.0	12.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	146.8	59.9	15.0	12.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	56.9	24.0	12.0	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0
87.5°	18.0	9.0	9.0	6.0	6.0	3.0	3.0	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)