

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: P481937

Luminaire Tested: **IFLD-S-SA2D-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481937
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

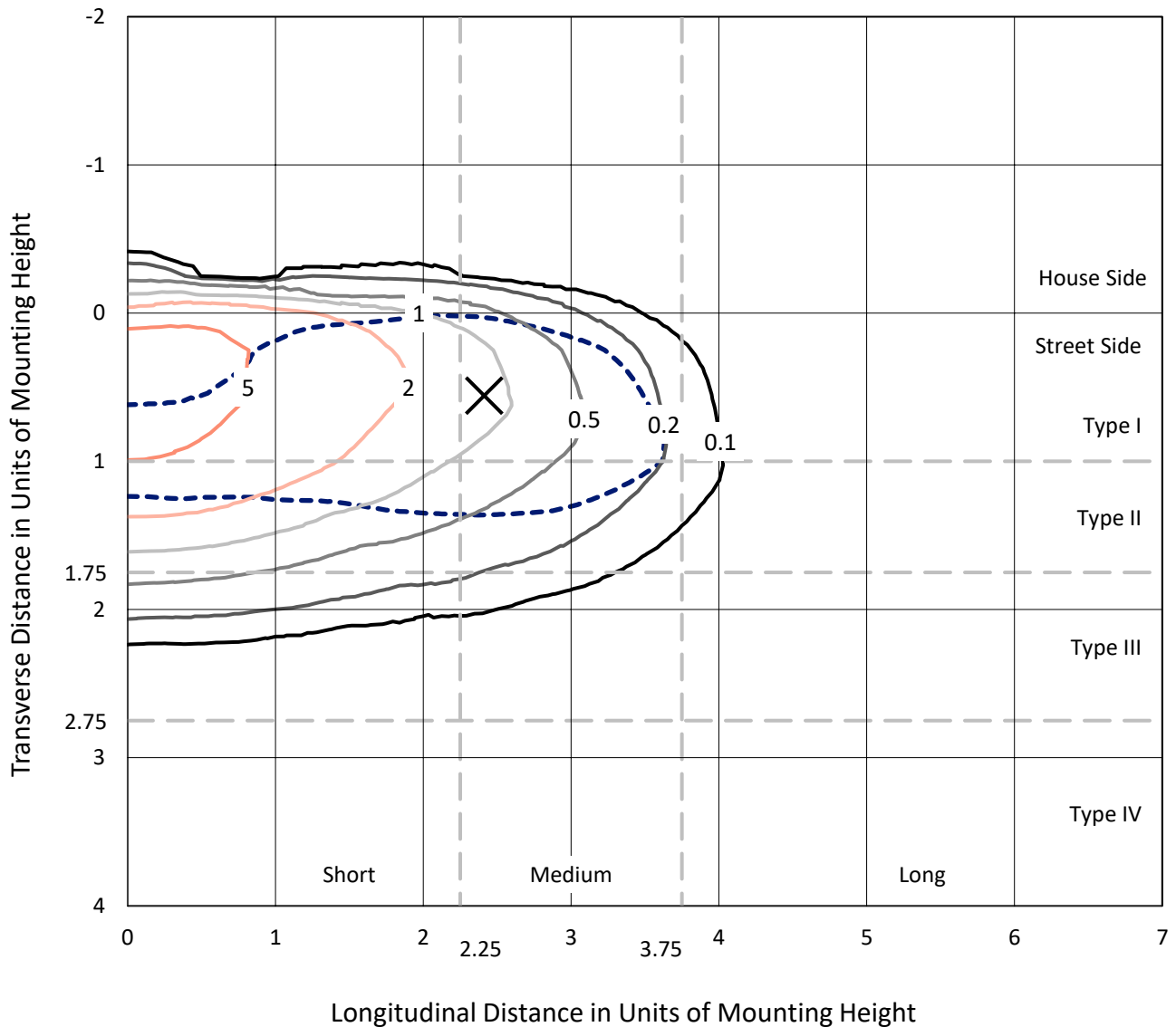
Lumens per Lamp: N/A
Luminaire Lumens: 10283.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

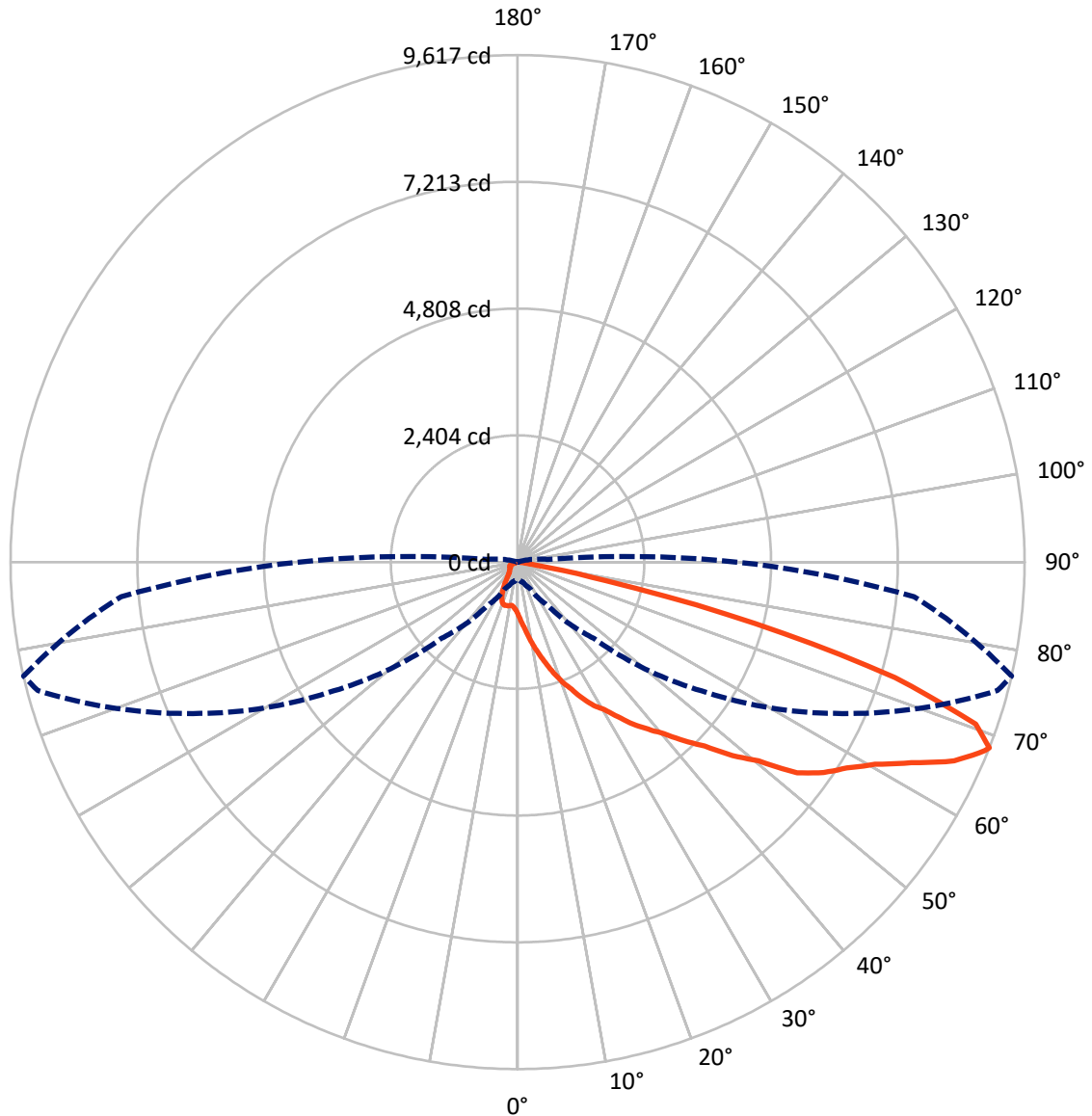
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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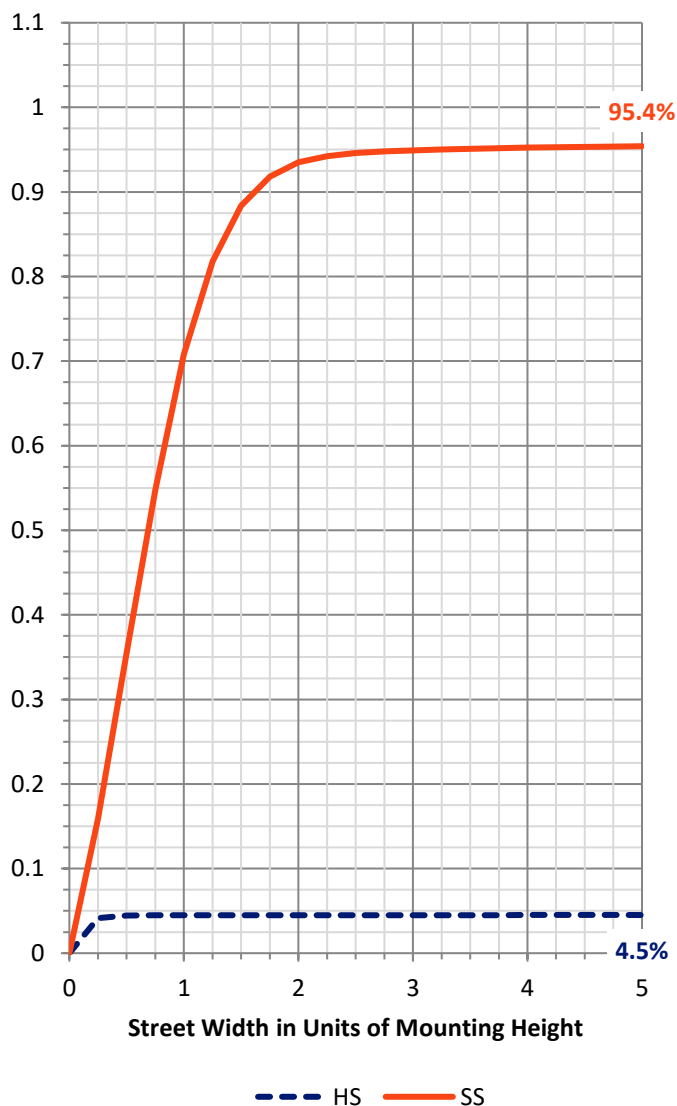
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	466.3	0.0	466.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	9816.7	0.0	9816.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	10283.1	0.0	10283.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.1
10°-20°	424.2	4.1
20°-30°	822.2	8.0
30°-40°	1433.3	13.9
40°-50°	2099.3	20.4
50°-60°	2466.3	24.0
60°-70°	2082.6	20.3
70°-80°	807.3	7.9
80°-90°	32.8	0.3
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°	10283.1	100.0
0°-180°	10283.1	100.0

Coefficient of Utilization



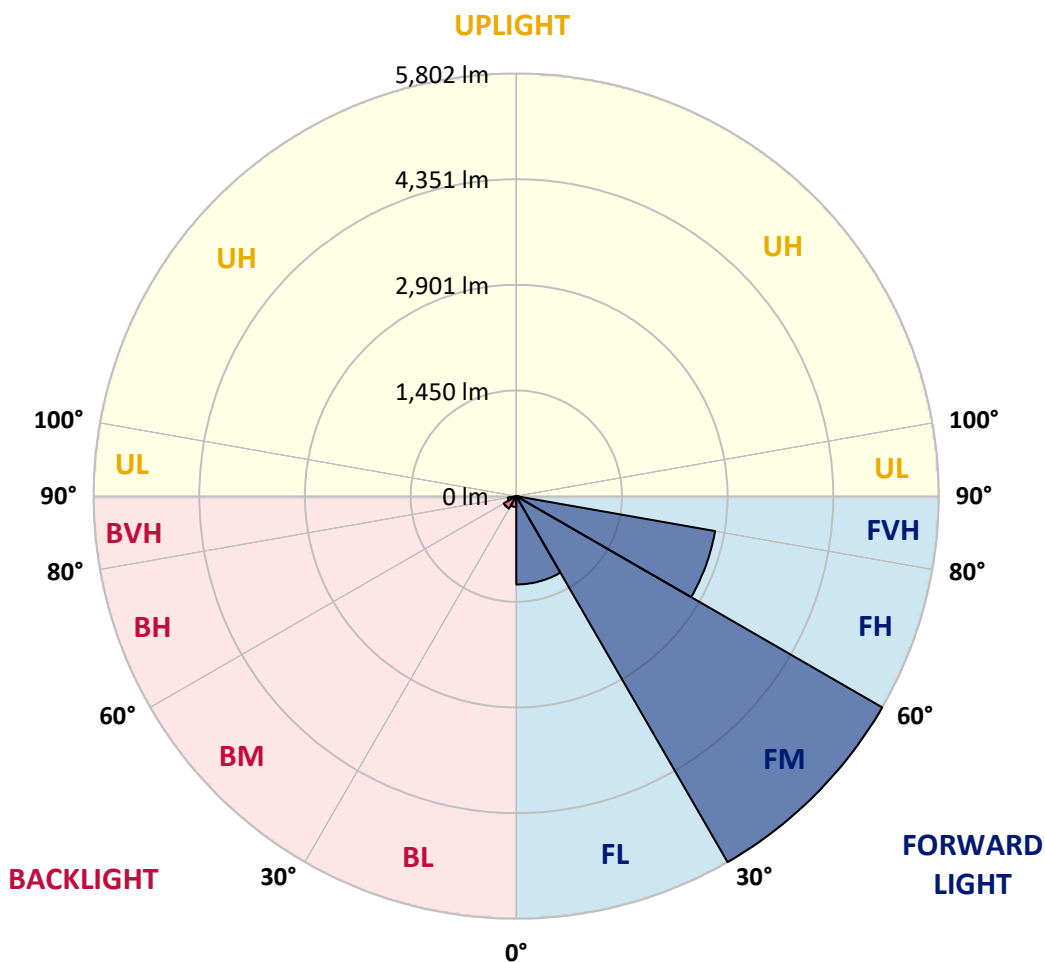
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.5	11.8			
FM (30°-60°)	5801.9	56.4			
FH (60°-80°)	2772.1	27.0			G2/5000
FVH (80°-90°)	30.3	0.3			G1/100
BL (0°-30°)	149.0	1.4	B1/500		
BM (30°-60°)	197.0	1.9	B0/220		
BH (60°-80°)	117.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6
2.5°	1496.1	1467.7	1438.0	1429.5	1374.2	1311.9	1253.8	1197.1	1102.2	1103.6	1038.5
5°	1928.2	1892.7	1868.7	1863.0	1776.6	1668.9	1581.1	1421.0	1263.7	1228.3	1109.3
7.5°	2283.8	2272.4	2237.0	2207.2	2143.5	2011.7	1908.3	1678.8	1439.4	1399.7	1195.7
10°	2499.1	2516.1	2531.7	2493.4	2443.8	2348.9	2207.2	1959.3	1639.1	1589.6	1307.6
12.5°	2728.6	2700.3	2710.2	2741.4	2676.2	2654.9	2479.3	2248.3	1872.9	1778.0	1449.3
15°	2788.1	2799.4	2823.5	2914.2	2958.1	2897.2	2745.6	2482.1	2115.2	1983.4	1581.1
17.5°	2827.8	2822.1	2851.9	2987.9	3054.4	3112.5	3017.6	2742.8	2326.3	2208.7	1745.4
20°	2877.4	2846.2	2911.4	2997.8	3152.2	3274.0	3269.8	3004.9	2547.3	2422.6	1908.3
22.5°	3061.5	3037.4	3089.9	3098.4	3206.0	3376.0	3417.1	3218.8	2773.9	2620.9	2084.0
25°	3401.5	3445.5	3383.1	3329.3	3361.9	3473.8	3503.5	3408.6	3002.0	2861.8	2259.7
27.5°	3898.8	3893.1	3769.9	3700.5	3622.5	3608.4	3629.6	3585.7	3182.0	3081.4	2404.2
30°	4432.9	4386.2	4272.8	4105.7	3934.2	3828.0	3798.2	3752.9	3393.0	3247.1	2547.3
32.5°	4857.9	4883.4	4757.3	4539.2	4254.4	4111.3	3968.2	3918.6	3625.4	3496.5	2711.6
35°	5248.9	5214.9	5114.4	4930.2	4675.2	4444.2	4220.4	4114.2	3904.5	3777.0	2892.9
37.5°	5538.0	5580.5	5389.2	5213.5	4959.9	4768.7	4549.1	4316.7	4192.1	4022.1	3113.9
40°	5811.4	5744.8	5615.9	5454.4	5219.2	5073.3	4928.8	4566.1	4498.1	4278.5	3363.3
42.5°	5763.2	5767.5	5696.6	5566.3	5396.3	5312.7	5263.1	4869.3	4775.8	4635.5	3607.0
45°	5566.3	5583.3	5607.4	5543.6	5557.8	5474.2	5607.4	5217.8	5125.7	4976.9	3887.5
47.5°	5349.5	5377.9	5372.2	5488.4	5620.1	5648.5	5981.4	5604.5	5564.9	5482.7	4275.7
50°	4989.7	5001.0	5110.1	5321.2	5501.1	5797.2	6261.9	6026.7	6087.6	5926.1	4737.5
52.5°	4374.8	4415.9	4696.4	4998.2	5360.9	5872.3	6451.7	6654.3	6808.8	6643.0	5180.9
55°	3597.0	3653.7	3930.0	4495.2	5026.5	5759.0	6624.6	6985.8	7298.9	7048.2	5450.1
57.5°	2894.4	2900.0	3147.9	3731.6	4551.9	5536.5	6712.4	7147.3	7568.1	7366.9	5778.8
60°	2205.8	2183.2	2405.6	2911.4	3752.9	4989.7	6492.8	7229.5	7903.9	7787.7	6174.1
62.5°	1419.6	1384.1	1626.4	2119.4	2931.2	4078.7	6053.6	7230.9	8428.1	8384.1	6835.7
65°	702.7	678.6	886.9	1299.1	2028.7	3119.6	5427.4	7204.0	9068.4	9096.8	7480.3
67.5°	371.2	379.7	446.3	658.8	1170.2	2204.4	4483.9	6888.1	9395.7	9554.4	7636.1
68°	341.4	344.3	396.7	548.3	1015.8	2044.3	4260.1	6796.0	9421.2	9616.7	7549.7
70°	277.7	281.9	300.3	344.3	549.7	1330.3	3286.8	6014.0	9037.2	9215.8	6834.3
72.5°	221.0	233.8	245.1	263.5	323.0	698.4	2044.3	4686.5	7466.1	7485.9	5319.8
75°	168.6	178.5	201.2	216.8	252.2	383.9	973.3	2857.5	4899.0	4658.2	3133.8
77.5°	130.3	138.8	148.8	170.0	211.1	259.3	297.5	1212.7	2081.2	1712.8	885.4
80°	77.9	83.6	116.2	133.2	184.2	175.7	117.6	337.2	422.2	332.9	161.5
82.5°	45.3	49.6	66.6	102.0	128.9	94.9	69.4	104.8	103.4	90.7	53.8
85°	1.4	2.8	36.8	60.9	45.3	25.5	42.5	43.9	36.8	34.0	24.1
87.5°	0.0	1.4	9.9	8.5	9.9	5.7	8.5	11.3	14.2	12.8	9.9
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°	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6	984.6
2.5°	994.5	963.4	893.9	841.5	784.9	750.9	716.9	695.6	684.3	677.2	682.9
5°	1020.0	954.9	842.9	743.8	678.6	634.7	590.8	568.1	546.9	535.5	542.6
7.5°	1076.7	979.0	793.4	685.7	609.2	541.2	485.9	442.0	416.5	393.8	398.1
10°	1146.1	993.1	794.8	651.7	541.2	433.5	355.6	300.3	269.2	249.3	247.9
12.5°	1217.0	1048.4	800.4	617.7	457.6	325.8	233.8	192.7	174.3	164.3	164.3
15°	1324.6	1098.0	786.3	555.4	347.1	212.5	160.1	145.9	138.8	130.3	131.8
17.5°	1418.1	1177.3	779.2	461.9	238.0	153.0	133.2	117.6	110.5	102.0	102.0
20°	1544.2	1226.9	740.9	357.0	164.3	127.5	107.7	93.5	82.2	75.1	76.5
22.5°	1659.0	1265.1	672.9	243.7	126.1	100.6	79.3	65.2	55.3	46.8	48.2
25°	1783.6	1303.4	573.8	150.2	89.3	62.3	42.5	31.2	21.3	15.6	15.6
27.5°	1872.9	1314.7	444.8	89.3	53.8	28.3	9.9	1.4	0.0	0.0	0.0
30°	1963.6	1319.0	307.4	48.2	21.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2067.0	1317.5	192.7	25.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	2146.3	1293.5	92.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2266.8	1258.0	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2404.2	1194.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2527.4	1129.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2667.7	1048.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2914.2	1014.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3235.8	987.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3434.1	908.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3537.5	825.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3690.6	786.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3917.2	789.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4271.4	828.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4466.9	789.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4301.2	631.9	26.9	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	4158.1	580.9	26.9	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3437.0	378.3	25.5	7.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2503.3	209.7	21.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1456.4	104.8	15.6	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	379.7	52.4	12.8	7.1	4.3	1.4	0.0	0.0	0.0	0.0	0.0
80°	75.1	34.0	11.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	35.4	24.1	11.3	8.5	7.1	4.3	1.4	0.0	0.0	0.0	0.0
85°	18.4	11.3	11.3	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	4.3	4.3	4.3	2.8	1.4	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)