

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: P481785

Luminaire Tested: **IFLD-S-SA3C-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481785
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

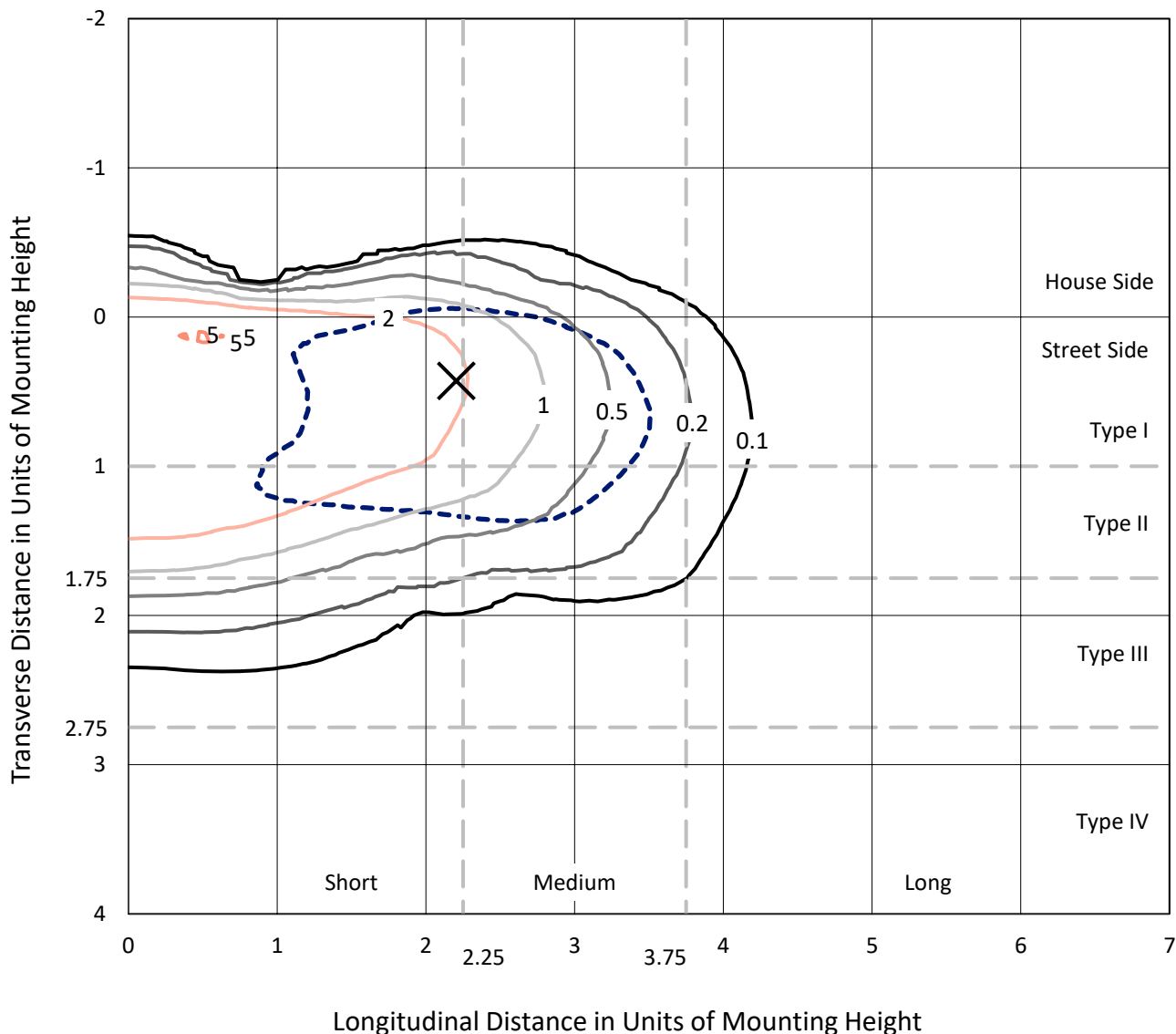
Lumens per Lamp: N/A
Luminaire Lumens: 11213.2 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

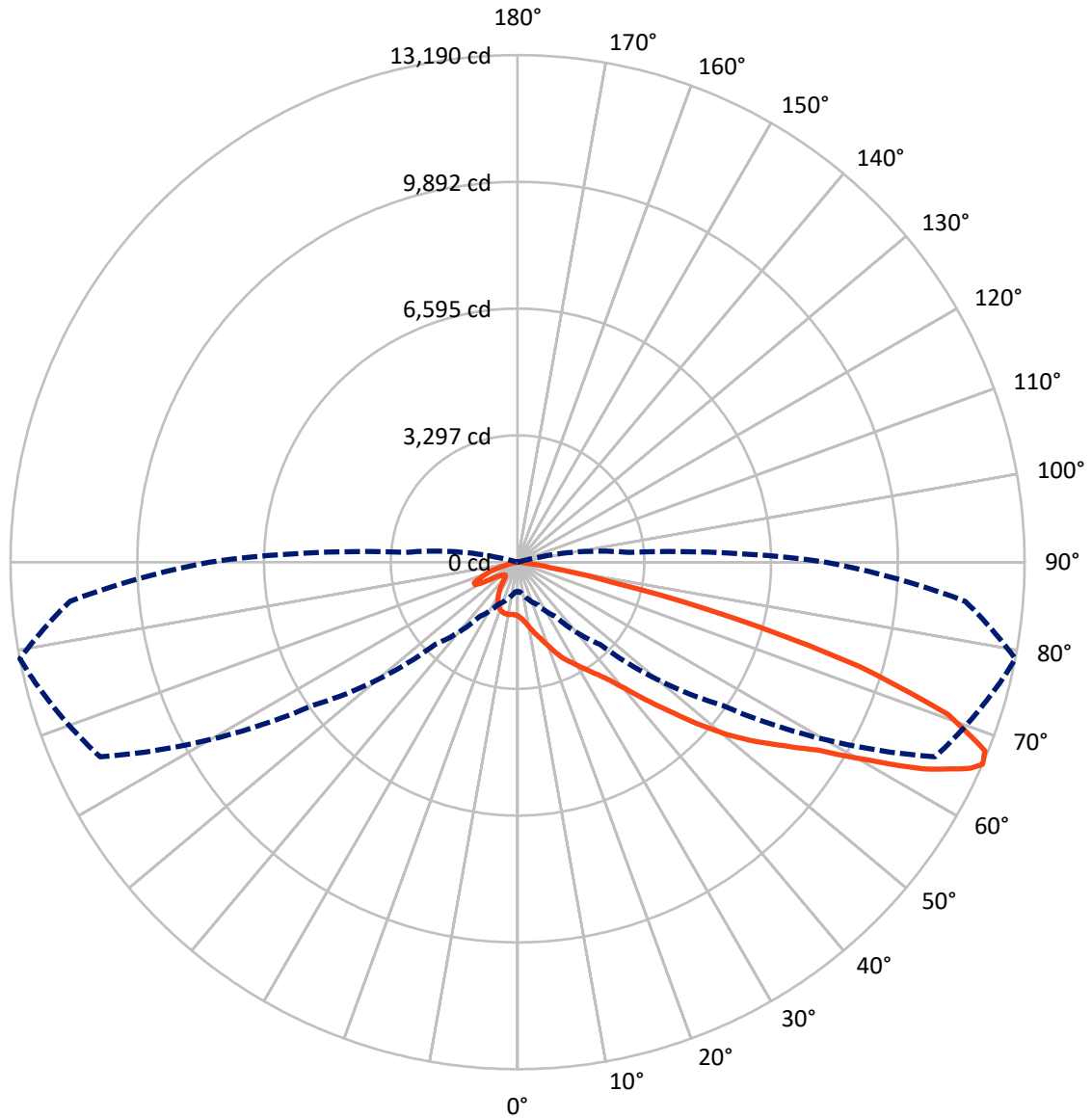
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	842.0	0.0	842.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10371.2	0.0	10371.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	11213.2	0.0	11213.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.2
10°-20°	363.1	3.2
20°-30°	603.2	5.4
30°-40°	1036.1	9.2
40°-50°	1877.0	16.7
50°-60°	2966.9	26.5
60°-70°	3019.1	26.9
70°-80°	1151.3	10.3
80°-90°	64.5	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°	11213.2	100.0
0°-180°	11213.2	100.0



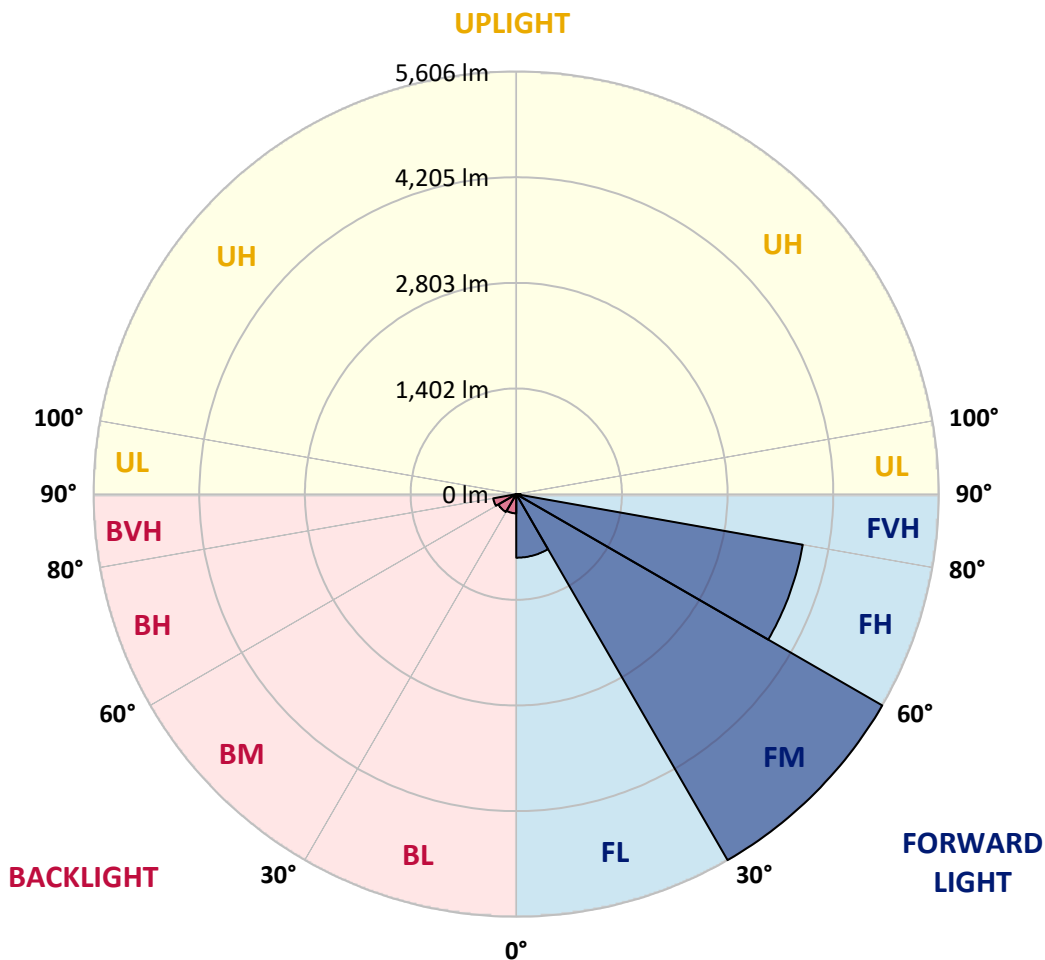
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.6	7.5			
FM (30°-60°)	5606.3	50.0			
FH (60°-80°)	3860.0	34.4			G2/5000
FVH (80°-90°)	61.2	0.5			G1/100
BL (0°-30°)	254.6	2.3	B1/500		
BM (30°-60°)	273.6	2.4	B1/1000		
BH (60°-80°)	310.4	2.8	B1/500		G1/500
BVH (80°-90°)	3.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1
2.5°	1580.0	1578.3	1571.4	1559.3	1543.7	1538.5	1516.1	1484.9	1467.7	1448.6	1440.0
5°	1688.9	1680.3	1701.0	1692.4	1695.8	1654.4	1626.7	1604.2	1538.5	1512.6	1471.1
7.5°	1713.1	1721.8	1720.0	1733.9	1747.7	1763.3	1744.3	1711.4	1645.7	1607.7	1562.7
10°	1713.1	1709.7	1723.5	1742.5	1782.3	1816.9	1868.7	1825.5	1775.4	1730.4	1649.2
12.5°	1682.0	1676.8	1690.7	1730.4	1801.3	1872.2	1929.2	1970.7	1899.8	1863.5	1758.1
15°	1586.9	1581.8	1638.8	1709.7	1803.0	1918.8	2038.1	2105.5	2057.1	2000.1	1882.5
17.5°	1469.4	1476.3	1536.8	1654.4	1803.0	1941.3	2093.4	2240.4	2233.5	2160.9	2038.1
20°	1429.6	1434.8	1495.3	1580.0	1749.4	1956.9	2179.9	2387.3	2428.8	2342.4	2181.6
22.5°	1505.7	1500.5	1505.7	1557.6	1713.1	1943.0	2236.9	2555.0	2629.3	2561.9	2370.0
25°	1765.0	1761.5	1718.3	1638.8	1692.4	1911.9	2266.3	2665.6	2836.8	2774.6	2522.2
27.5°	2145.3	2131.5	2064.1	1898.1	1789.2	1930.9	2314.7	2772.8	3018.3	2947.4	2658.7
30°	2553.3	2520.4	2432.3	2224.8	2039.9	2001.8	2342.4	2852.3	3220.6	3130.7	2778.0
32.5°	2835.1	2878.3	2850.6	2639.7	2356.2	2166.1	2387.3	2952.6	3407.3	3348.5	2982.0
35°	3270.7	3320.8	3205.0	3018.3	2733.1	2427.1	2482.4	3033.9	3694.2	3595.7	3172.1
37.5°	3820.4	3858.4	3775.5	3421.1	3120.3	2748.6	2677.7	3203.3	3941.4	3894.7	3415.9
40°	4097.0	4280.2	4162.7	3842.9	3519.6	3198.1	3001.0	3402.1	4371.9	4333.8	3753.0
42.5°	4479.0	4570.7	4510.2	4273.3	3936.2	3678.7	3400.3	3789.3	4893.9	4893.9	4209.4
45°	4883.6	4887.0	4883.6	4689.9	4390.9	4257.8	3939.7	4275.1	5455.8	5518.0	4755.6
47.5°	5215.5	5319.2	5310.5	5194.7	4963.1	4912.9	4479.0	4828.2	6161.1	6270.0	5288.1
50°	5386.6	5502.4	5537.0	5597.5	5587.1	5692.6	5068.5	5469.6	6769.6	7037.5	5972.6
52.5°	5339.9	5348.6	5561.2	5799.8	6180.1	6475.7	5779.0	6197.4	7481.8	7746.3	6501.6
55°	4957.9	4925.0	5362.4	5635.5	6422.1	6954.5	6762.6	7104.9	8036.7	8439.5	7047.9
57.5°	4119.5	4128.1	4532.6	5087.5	6242.3	7144.7	7813.7	8290.8	8814.6	9220.8	7815.4
60°	2843.7	2833.3	3286.2	3927.6	5186.1	6790.3	8418.7	9827.6	9855.3	10430.9	9193.2
62.5°	1599.0	1602.5	1946.5	2494.5	3628.5	5549.1	8389.3	11459.5	11341.9	11846.7	10759.4
65°	905.8	928.3	1165.1	1478.0	2173.0	3725.3	7215.6	12109.5	12488.1	12937.5	11710.2
66°	765.8	781.4	983.6	1220.5	1733.9	3021.8	6494.7	11983.3	12847.6	13189.9	11691.1
67.5°	592.9	613.7	783.1	968.1	1272.3	2091.7	5227.6	11355.8	12913.3	13113.9	11361.0
70°	406.2	420.1	549.7	734.7	869.5	1070.1	3125.5	9388.5	11717.1	11886.5	9874.3
72.5°	285.2	292.1	385.5	556.6	669.0	612.0	1550.6	6679.7	8966.7	9296.9	7680.6
75°	205.7	212.6	264.5	399.3	522.1	401.1	710.5	4266.4	5499.0	5758.3	4626.0
77.5°	148.7	157.3	179.8	257.6	378.6	281.8	349.2	2228.3	2593.0	2548.1	1989.7
80°	89.9	98.5	133.1	166.0	276.6	198.8	191.9	930.0	919.7	873.0	625.8
82.5°	41.5	48.4	70.9	112.4	193.6	138.3	91.6	331.9	290.4	266.2	176.3
85°	12.1	15.6	41.5	84.7	98.5	67.4	55.3	114.1	119.3	102.0	58.8
87.5°	0.0	1.7	19.0	20.7	29.4	22.5	20.7	29.4	55.3	44.9	19.0
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°	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1	1395.1
2.5°	1408.9	1396.8	1367.4	1322.4	1282.7	1261.9	1232.6	1206.6	1192.8	1191.1	1189.3
5°	1443.5	1410.6	1339.7	1258.5	1198.0	1132.3	1087.3	1054.5	1023.4	994.0	1011.3
7.5°	1490.1	1438.3	1322.4	1217.0	1085.6	1000.9	921.4	874.7	847.1	821.1	817.7
10°	1562.7	1497.0	1310.3	1120.2	969.8	845.3	764.1	696.7	658.6	613.7	631.0
12.5°	1661.3	1543.7	1265.4	1032.0	838.4	707.0	591.2	482.3	421.8	375.1	376.9
15°	1759.8	1606.0	1223.9	924.9	719.1	546.3	376.9	302.5	285.2	274.9	278.3
17.5°	1856.6	1656.1	1160.0	815.9	582.6	347.5	274.9	259.3	250.7	240.3	240.3
20°	1974.2	1688.9	1080.4	715.7	401.1	257.6	235.1	224.7	210.9	197.1	198.8
22.5°	2088.3	1716.6	988.8	587.8	269.7	223.0	197.1	183.2	171.1	157.3	157.3
25°	2202.4	1725.2	869.5	421.8	217.8	178.1	153.9	134.8	122.7	110.6	112.4
27.5°	2280.1	1671.6	757.2	269.7	174.6	134.8	107.2	91.6	81.2	69.1	69.1
30°	2325.1	1573.1	636.2	190.2	131.4	91.6	64.0	48.4	38.0	29.4	27.7
32.5°	2370.0	1493.6	499.6	145.2	86.4	48.4	24.2	8.6	0.0	0.0	0.0
35°	2459.9	1403.7	335.4	81.2	29.4	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2517.0	1279.2	153.9	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2660.5	1217.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2893.8	1173.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3149.7	1156.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3490.2	1203.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3849.8	1329.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4243.9	1448.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4587.9	1592.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5220.6	1930.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6356.4	2596.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7635.6	3090.9	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8104.1	3078.8	32.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8021.1	2909.4	32.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7590.7	2584.4	29.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6518.9	2134.9	29.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4970.0	1663.0	27.7	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2999.3	885.1	22.5	8.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1194.5	311.2	17.3	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	323.3	93.3	10.4	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	84.7	34.6	8.6	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	32.8	13.8	6.9	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	3.5	3.5	1.7	1.7	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)