

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: P480375

Luminaire Tested: **IFLD-S-SA2B-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

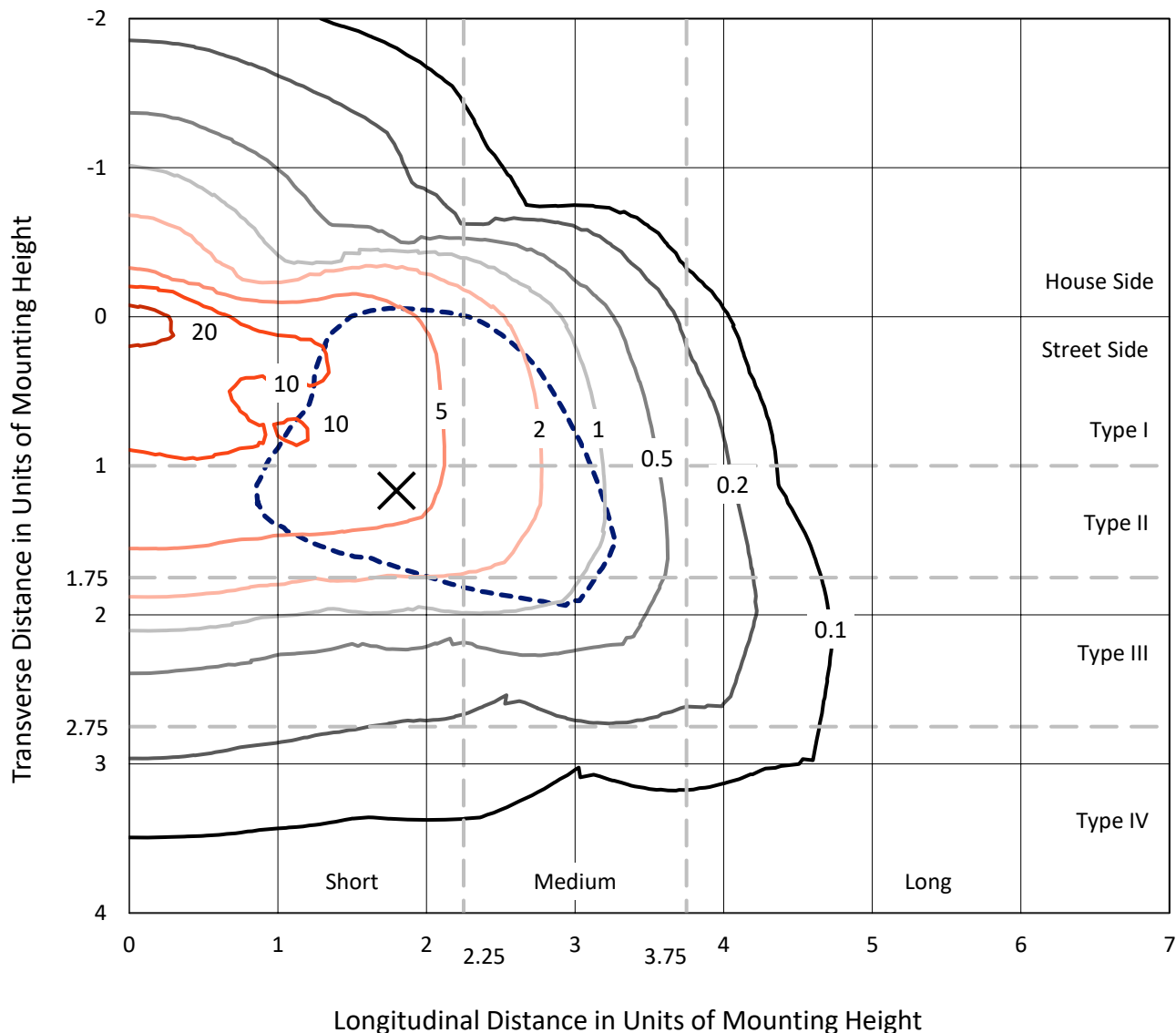
Lumens per Lamp: N/A
Luminaire Lumens: 9421.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

REPORT NUMBER: P480375
 CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

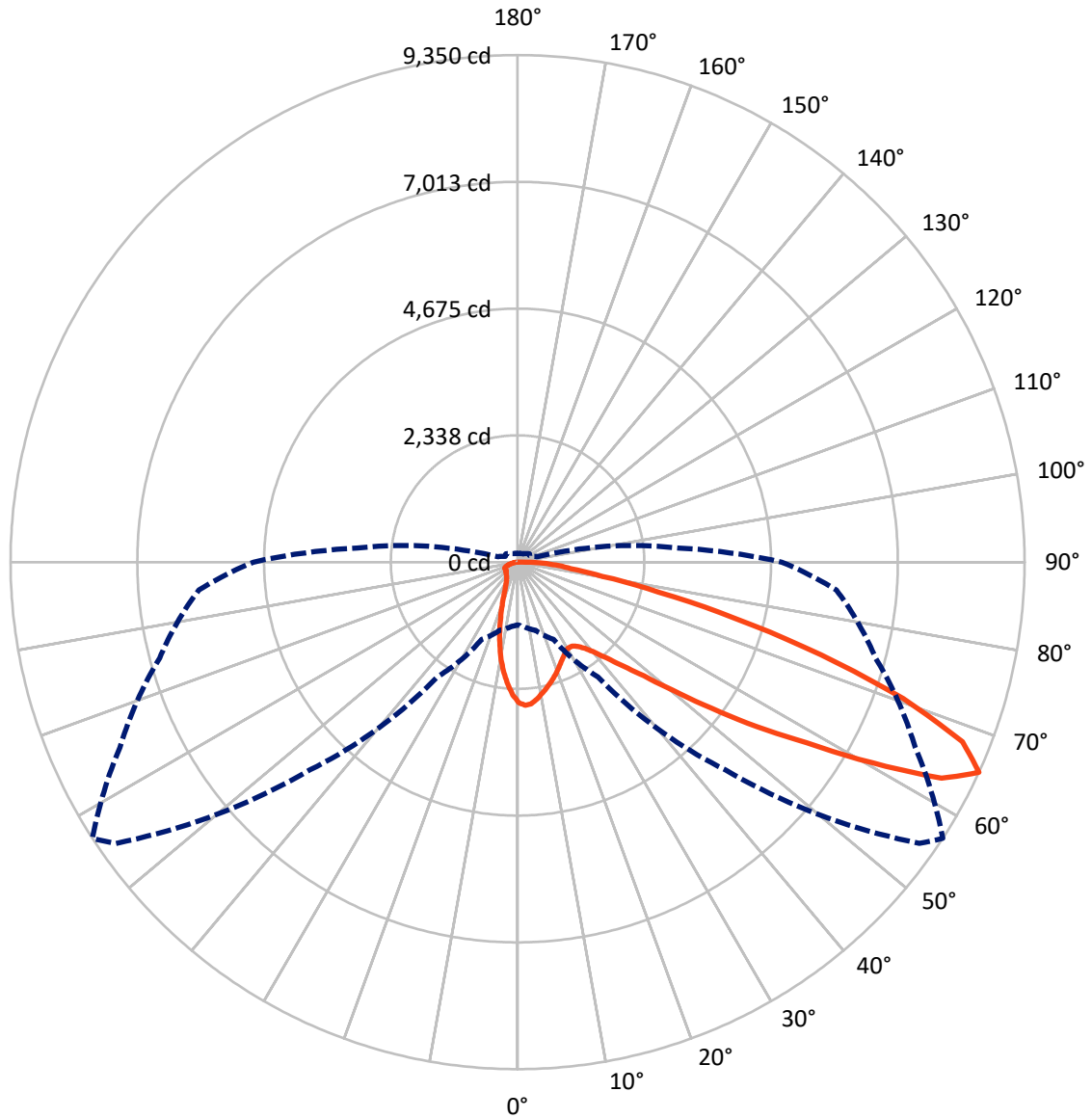
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.9 fc
 Type III - Short - N/A

REPORT NUMBER: P480375
CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480375
 CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.9	0.0	1444.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7977.0	0.0	7977.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	9421.9	0.0	9421.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	2.3
10°-20°	466.9	5.0
20°-30°	603.7	6.4
30°-40°	812.4	8.6
40°-50°	1295.4	13.7
50°-60°	2288.0	24.3
60°-70°	2517.2	26.7
70°-80°	1053.0	11.2
80°-90°	168.3	1.8
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°	9421.9	100.0
0°-180°	9421.9	100.0

Coefficient of Utilization



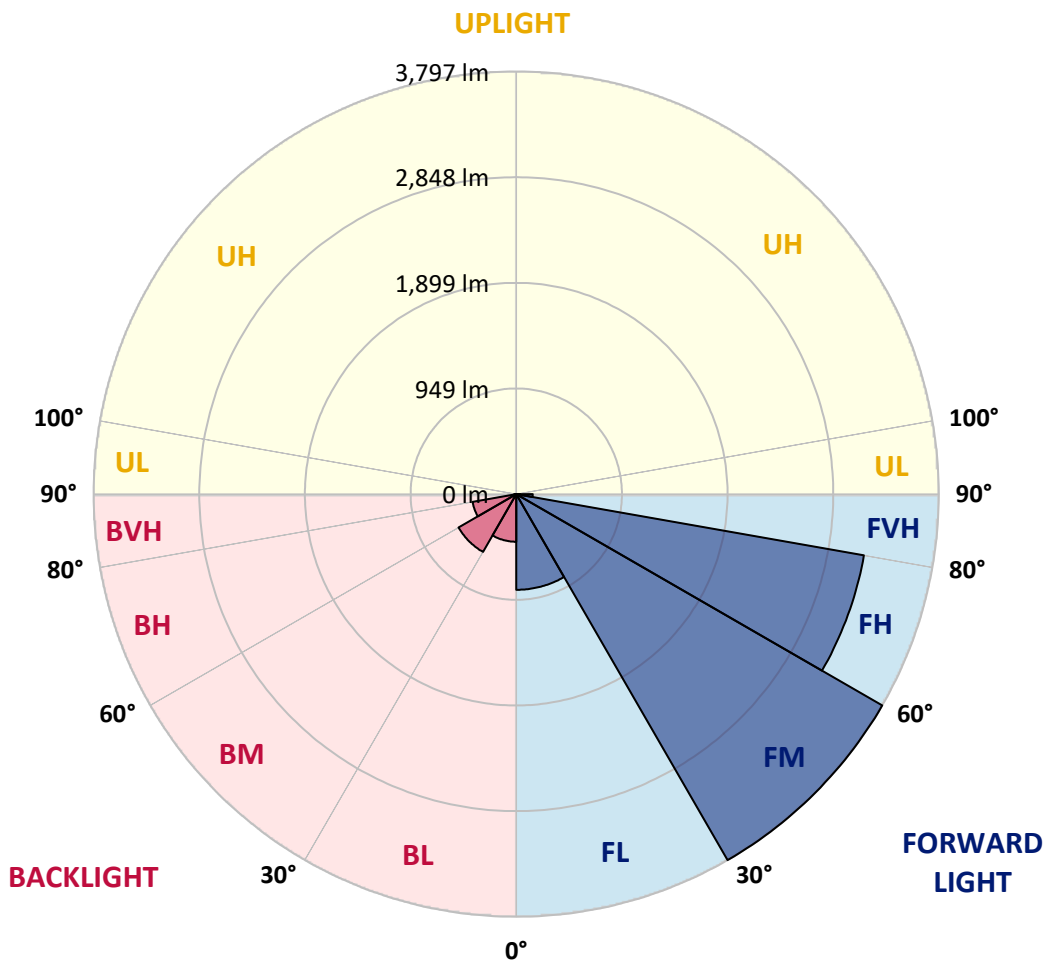
REPORT NUMBER: P480375
 CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.7	9.1			
FM (30°-60°)	3797.0	40.3			
FH (60°-80°)	3171.7	33.7			G2/5000
FVH (80°-90°)	148.5	1.6			G2/225
BL (0°-30°)	427.9	4.5	B1/500		
BM (30°-60°)	598.9	6.4	B1/1000		
BH (60°-80°)	398.4	4.2	B1/500		G1/500
BVH (80°-90°)	19.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P480375
 CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2660.9	2665.1	2665.1	2673.6	2645.0	2658.7	2656.6	2643.9	2648.1	2625.9	2603.6
5°	2585.6	2582.4	2599.4	2601.5	2623.8	2630.1	2635.4	2626.9	2629.1	2580.3	2559.1
7.5°	2392.7	2391.6	2420.2	2444.6	2491.2	2534.7	2563.3	2554.9	2566.5	2535.8	2485.9
10°	2163.7	2188.1	2217.7	2242.1	2328.0	2383.1	2457.3	2464.7	2509.3	2501.8	2411.7
12.5°	1991.9	2002.5	2024.8	2094.8	2173.2	2264.4	2370.4	2379.9	2423.4	2444.6	2366.2
15°	1850.9	1860.5	1889.1	1941.1	2029.0	2137.2	2271.8	2296.2	2383.1	2390.5	2306.8
17.5°	1748.1	1755.5	1774.6	1826.6	1898.6	2037.5	2164.7	2208.2	2322.7	2358.7	2245.3
20°	1707.8	1691.9	1702.5	1735.4	1807.5	1914.6	2078.9	2117.0	2263.3	2334.4	2187.0
22.5°	1689.8	1676.0	1682.4	1680.3	1737.5	1813.8	1986.6	2026.9	2207.1	2305.7	2135.1
25°	1703.6	1703.6	1697.2	1691.9	1698.3	1748.1	1887.0	1949.5	2131.9	2281.3	2082.0
27.5°	1777.8	1749.2	1752.4	1730.1	1723.7	1723.7	1842.5	1879.6	2107.5	2267.6	2038.6
30°	1825.5	1839.3	1840.3	1807.5	1774.6	1715.3	1801.1	1837.2	2087.3	2284.5	2013.1
32.5°	1947.4	1941.1	1923.0	1916.7	1867.9	1801.1	1821.3	1845.6	2075.7	2322.7	2020.6
35°	2069.3	2066.1	2067.2	2064.0	2013.1	1914.6	1875.3	1908.2	2096.9	2389.5	2046.0
37.5°	2195.5	2204.0	2240.0	2240.0	2185.9	2078.9	2026.9	2017.4	2174.3	2498.7	2106.4
40°	2321.6	2342.8	2388.4	2460.5	2384.2	2284.5	2200.8	2185.9	2267.6	2645.0	2251.7
42.5°	2442.5	2477.5	2567.6	2674.6	2649.2	2549.6	2438.2	2421.3	2459.4	2862.3	2454.1
45°	2597.3	2626.9	2769.0	2933.3	2968.3	2880.3	2749.9	2736.1	2734.0	3180.3	2733.0
47.5°	2832.6	2864.4	3006.5	3171.8	3280.0	3293.7	3147.5	3132.6	3081.7	3609.7	3141.1
50°	3127.3	3179.3	3299.0	3492.0	3648.9	3796.2	3754.9	3711.4	3611.8	4109.0	3658.4
52.5°	3342.5	3406.1	3568.3	3815.3	4092.0	4326.3	4474.7	4474.7	4245.7	4657.0	4280.7
55°	3399.8	3437.9	3642.5	3999.8	4473.6	5066.2	5376.9	5353.5	5000.5	5233.7	5004.8
57.5°	3171.8	3221.7	3469.7	3843.9	4674.0	5758.5	6272.6	6277.9	5825.3	5903.7	5719.3
60°	2544.3	2560.2	2852.7	3353.1	4481.1	6316.1	7496.0	7516.1	6763.5	6500.6	6082.9
62.5°	1758.7	1809.6	2030.1	2469.0	3712.5	6253.6	8675.9	8775.6	7515.1	6815.4	6140.1
65°	1157.6	1188.4	1306.0	1573.2	2584.5	5420.3	9042.7	9350.1	8089.7	6833.4	5900.5
67.5°	839.6	844.9	879.9	1017.7	1553.1	3898.0	8416.2	8849.8	8304.9	6682.9	5338.7
70°	678.5	682.7	695.4	783.4	1002.9	2439.3	6864.2	7543.7	7659.3	5969.5	4299.8
72.5°	551.3	556.6	572.5	655.1	826.9	1356.9	5019.6	5847.5	6230.2	4416.4	2858.0
75°	433.6	437.8	476.0	557.6	777.1	931.8	3329.8	4140.8	4192.7	2581.4	1337.9
77.5°	296.8	304.3	350.9	472.8	731.5	815.2	2075.7	2652.4	2379.9	1010.3	460.1
80°	188.7	199.3	226.9	358.3	646.7	778.1	1291.2	1583.8	1042.1	345.6	221.6
82.5°	111.3	121.9	149.5	232.2	507.8	721.9	909.6	991.2	488.7	177.0	133.6
85°	61.5	68.9	90.1	139.9	297.9	641.4	728.3	711.3	279.9	94.3	83.7
87.5°	20.1	23.3	32.9	56.2	123.0	302.1	436.8	410.3	145.2	43.5	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480375
 CATALOG NUMBER: IFLD-S-SA2B-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9	2590.9
2.5°	2588.8	2585.6	2537.9	2501.8	2440.4	2389.5	2369.3	2341.8	2340.7	2320.6	2315.3
5°	2526.2	2493.4	2420.2	2350.3	2241.1	2167.9	2101.1	2054.5	2035.4	1994.1	1984.5
7.5°	2445.7	2402.2	2289.8	2158.4	2030.1	1915.6	1811.7	1707.8	1649.5	1629.4	1607.1
10°	2361.9	2285.6	2119.2	1971.8	1792.6	1616.7	1453.4	1307.1	1227.6	1171.4	1147.0
12.5°	2295.1	2193.4	1981.3	1760.8	1524.4	1289.1	1099.3	945.6	855.5	813.1	794.0
15°	2219.9	2085.2	1830.8	1552.0	1257.3	990.1	804.6	683.8	647.7	627.6	624.4
17.5°	2140.4	1984.5	1667.5	1346.3	996.5	745.3	625.5	576.7	560.8	552.3	548.1
20°	2066.1	1894.4	1500.0	1117.4	780.2	597.9	541.7	516.3	515.2	519.5	518.4
22.5°	1961.2	1776.7	1334.7	905.3	623.3	520.5	484.5	478.1	484.5	489.8	491.9
25°	1901.8	1680.3	1150.2	718.8	515.2	462.2	450.5	448.4	458.0	464.3	463.3
27.5°	1840.3	1580.6	978.5	575.6	451.6	420.9	418.7	420.9	430.4	439.9	438.9
30°	1792.6	1501.1	817.3	481.3	402.8	391.2	389.1	391.2	396.5	397.5	397.5
32.5°	1753.4	1406.8	680.6	417.7	373.2	363.6	365.7	364.7	365.7	366.8	367.9
35°	1730.1	1350.6	568.2	378.5	348.8	341.4	340.3	337.1	338.2	339.2	338.2
37.5°	1779.9	1323.0	479.2	350.9	331.8	325.5	323.3	321.2	318.0	318.0	318.0
40°	1855.2	1308.2	425.1	332.9	319.1	311.7	305.3	303.2	303.2	304.3	305.3
42.5°	2004.7	1332.6	388.0	319.1	303.2	294.7	288.3	289.4	292.6	295.8	293.6
45°	2220.9	1406.8	371.0	308.5	293.6	282.0	277.7	276.7	279.9	285.2	289.4
47.5°	2504.0	1522.3	364.7	298.9	287.3	271.4	266.1	269.3	273.5	280.9	277.7
50°	2967.2	1782.0	370.0	290.5	277.7	266.1	259.7	256.5	259.7	265.0	267.1
52.5°	3572.6	2253.8	390.1	286.2	271.4	261.8	251.2	245.9	249.1	253.4	253.4
55°	4296.6	2898.3	446.3	280.9	260.8	255.5	243.8	233.2	235.3	235.3	234.3
57.5°	4934.8	3384.9	513.1	273.5	254.4	247.0	232.2	219.4	217.3	218.4	219.4
60°	5221.0	3514.2	544.9	271.4	254.4	236.4	216.3	203.5	200.4	198.2	198.2
62.5°	5171.2	3290.6	480.2	261.8	260.8	227.9	201.4	187.6	183.4	179.2	180.2
65°	4870.1	2971.5	378.5	249.1	261.8	222.6	186.6	172.8	165.4	160.1	159.0
67.5°	4319.9	2536.8	300.0	239.6	251.2	213.1	173.9	158.0	151.6	146.3	144.2
70°	3379.6	1988.8	260.8	226.9	225.8	189.8	159.0	145.2	135.7	129.3	129.3
72.5°	2191.2	1257.3	223.7	201.4	195.1	159.0	137.8	129.3	121.9	116.6	116.6
75°	992.3	584.1	180.2	168.6	159.0	127.2	116.6	112.4	106.0	100.7	100.7
77.5°	356.2	249.1	134.6	132.5	118.7	98.6	94.3	91.2	86.9	81.6	81.6
80°	199.3	158.0	100.7	96.5	82.7	73.1	67.8	67.8	65.7	62.5	61.5
82.5°	126.2	102.8	74.2	64.7	54.1	48.8	46.6	45.6	44.5	40.3	39.2
85°	79.5	70.0	48.8	38.2	31.8	24.4	23.3	22.3	20.1	18.0	18.0
87.5°	36.0	40.3	19.1	11.7	8.5	5.3	3.2	1.1	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)