

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: P484121

Luminaire Tested: **IFLD-S-SA2D-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

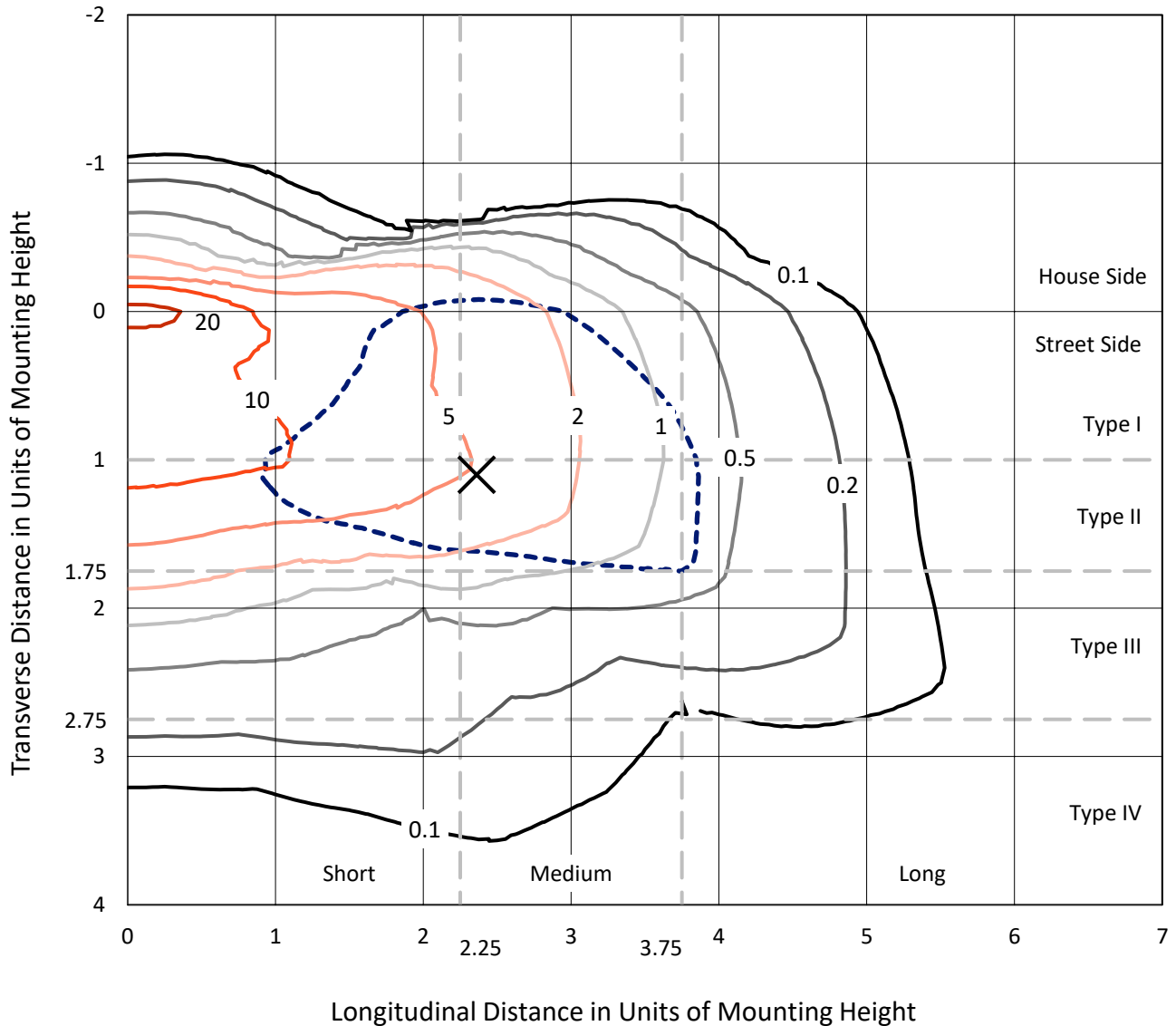
Lumens per Lamp: N/A
Luminaire Lumens: 9462.3 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

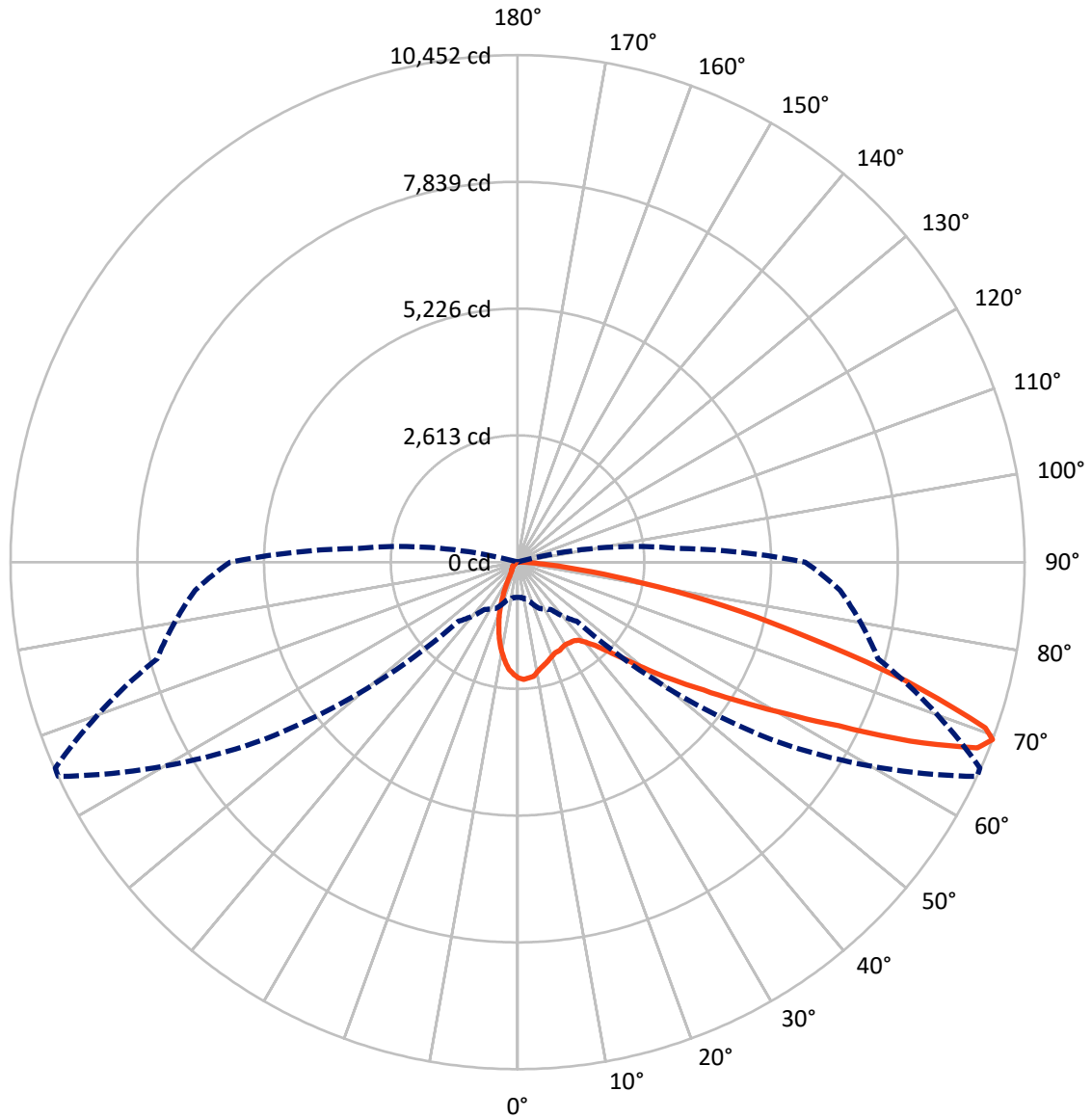
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.8	0.0	1147.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8314.5	0.0	8314.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	9462.3	0.0	9462.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	2.1
10°-20°	427.1	4.5
20°-30°	594.7	6.3
30°-40°	842.7	8.9
40°-50°	1328.1	14.0
50°-60°	2155.1	22.8
60°-70°	2406.8	25.4
70°-80°	1355.3	14.3
80°-90°	157.3	1.7
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°	9462.3	100.0
0°-180°	9462.3	100.0



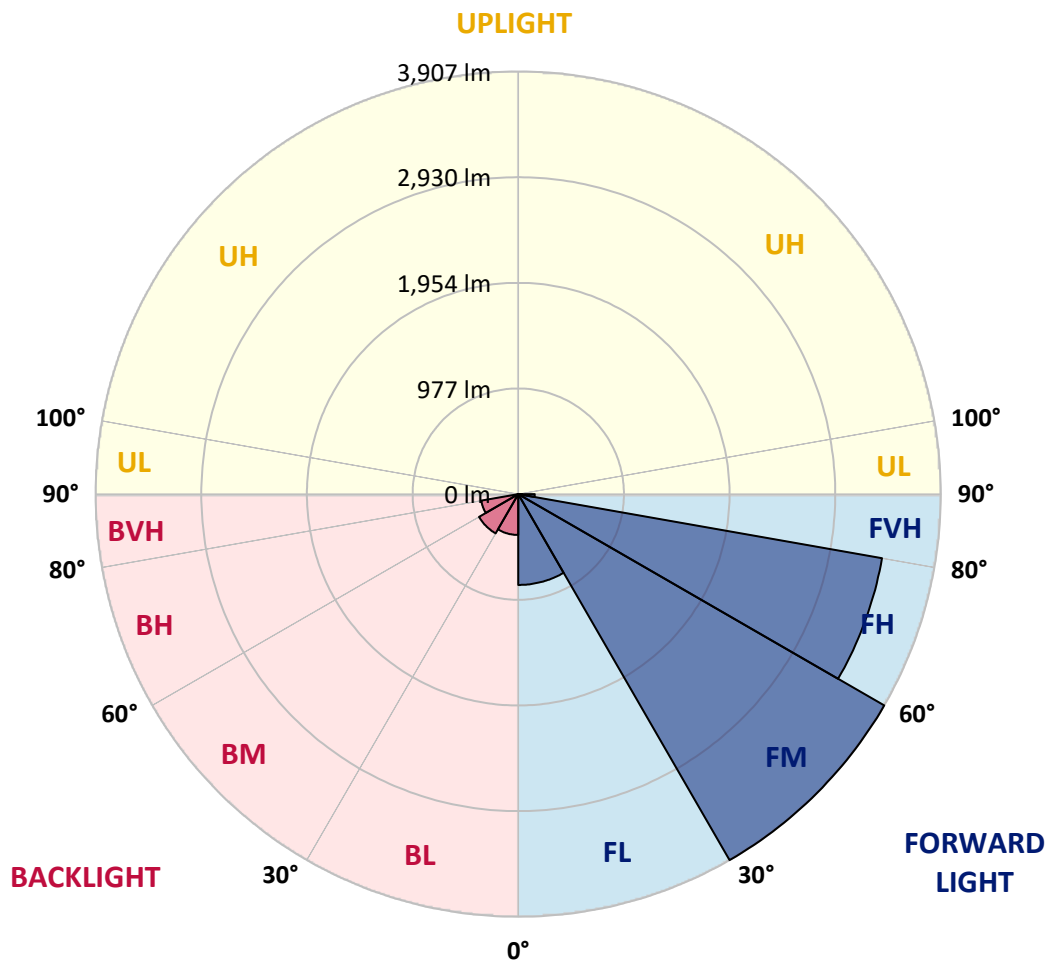
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.7	8.9			
FM (30°-60°)	3907.1	41.3			
FH (60°-80°)	3414.8	36.1			G2/5000
FVH (80°-90°)	152.9	1.6			G2/225
BL (0°-30°)	377.4	4.0	B1/500		
BM (30°-60°)	418.8	4.4	B1/1000		
BH (60°-80°)	347.3	3.7	B1/500		G1/500
BVH (80°-90°)	4.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7
2.5°	2297.6	2315.5	2320.6	2338.4	2347.4	2385.7	2407.4	2420.1	2413.8	2427.8	2429.1
5°	2134.2	2124.0	2150.8	2170.0	2210.8	2277.2	2344.8	2397.2	2421.4	2444.4	2440.6
7.5°	1959.3	1954.2	1981.0	2024.4	2061.5	2141.9	2250.4	2379.3	2374.2	2430.3	2446.9
10°	1839.4	1844.5	1853.4	1896.8	1951.7	2033.4	2168.7	2288.7	2315.5	2434.2	2467.4
12.5°	1729.6	1738.5	1755.1	1799.8	1863.6	1947.9	2079.3	2219.7	2260.6	2412.5	2478.8
15°	1693.8	1673.4	1706.6	1739.8	1806.2	1881.5	1992.5	2167.4	2185.3	2386.9	2498.0
17.5°	1664.5	1651.7	1667.0	1693.8	1764.0	1825.3	1930.0	2111.2	2144.4	2376.7	2495.4
20°	1673.4	1661.9	1668.3	1688.7	1720.6	1778.1	1875.1	2057.6	2093.4	2329.5	2491.6
22.5°	1698.9	1707.9	1696.4	1701.5	1711.7	1741.1	1845.7	2019.3	2050.0	2320.6	2513.3
25°	1813.8	1798.5	1783.2	1776.8	1716.8	1729.6	1836.8	2016.8	2038.5	2288.7	2495.4
27.5°	1933.8	1921.0	1914.7	1877.6	1796.0	1757.7	1838.1	1981.0	2010.4	2275.9	2473.7
30°	2079.3	2095.9	2070.4	2025.7	1912.1	1817.7	1852.1	1963.2	2004.0	2227.4	2459.7
32.5°	2232.5	2241.4	2254.2	2221.0	2074.2	1908.3	1894.2	1979.8	1982.3	2227.4	2427.8
35°	2406.1	2393.3	2426.5	2429.1	2300.1	2069.1	1974.7	1991.2	2018.1	2217.2	2416.3
37.5°	2555.4	2577.1	2615.4	2676.7	2543.9	2296.3	2099.7	2044.9	2056.3	2264.4	2425.2
40°	2718.8	2740.5	2827.3	2888.6	2813.3	2551.6	2289.9	2170.0	2178.9	2334.6	2471.2
42.5°	2898.8	2940.9	3044.3	3151.5	3131.1	2875.8	2535.0	2353.8	2349.9	2509.5	2565.6
45°	3142.6	3198.8	3311.1	3434.9	3452.8	3247.3	2861.8	2628.2	2641.0	2738.0	2760.9
47.5°	3482.1	3479.6	3589.4	3727.2	3830.6	3632.8	3252.4	2997.1	2995.8	3099.2	3050.7
50°	3810.2	3811.5	3840.8	4000.4	4268.4	4167.6	3736.1	3487.2	3473.2	3524.3	3446.4
52.5°	3962.1	3944.2	3922.5	4115.2	4605.4	4841.5	4348.8	4042.5	4031.0	4000.4	3979.9
55°	3802.5	3808.9	3807.6	4008.0	4782.8	5552.5	5135.1	4653.9	4634.8	4539.0	4567.1
57.5°	3290.7	3270.2	3314.9	3627.6	4579.9	6037.6	6259.7	5424.9	5375.1	5057.3	4993.4
60°	2449.5	2455.9	2492.9	2861.8	4075.7	6139.7	7335.7	6329.9	6115.4	5422.3	5334.2
62.5°	1710.4	1697.7	1711.7	1918.5	2914.1	5731.2	8063.3	7430.2	7223.4	5837.2	5786.1
65°	1224.1	1207.5	1263.7	1390.0	1750.0	4382.0	8166.7	8895.5	8710.4	6499.6	6377.1
67.5°	880.7	878.2	943.3	1173.0	1243.3	2523.5	7400.8	10223.0	10110.7	7285.9	6737.1
69°	728.8	730.1	792.7	1050.5	1187.1	1723.2	6368.2	10451.5	10431.1	7691.8	6669.4
70°	635.7	640.8	713.5	977.8	1164.1	1416.9	5490.0	10226.9	10206.4	7771.0	6446.0
72.5°	391.9	395.7	491.4	783.7	1106.7	1156.5	3283.0	8367.1	8437.3	7408.5	5553.8
75°	187.6	188.9	257.8	566.7	1067.1	1096.5	1758.9	6174.1	6322.2	5981.4	4339.9
77.5°	99.6	99.6	123.8	301.2	864.2	1031.4	1044.1	4355.2	4477.8	3782.1	2467.4
80°	49.8	51.1	75.3	157.0	536.1	1010.9	815.6	2597.6	2663.9	1543.2	768.4
82.5°	19.1	20.4	35.7	94.5	278.3	853.9	716.1	1277.7	1261.1	361.2	187.6
85°	2.6	2.6	12.8	56.2	118.7	376.6	591.0	533.6	515.7	79.1	90.6
87.5°	0.0	0.0	2.6	16.6	35.7	109.8	228.5	146.8	163.4	21.7	44.7
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°	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7	2385.7
2.5°	2422.7	2395.9	2355.0	2315.5	2273.3	2222.3	2166.1	2145.7	2110.0	2107.4	2127.8
5°	2420.1	2376.7	2305.3	2221.0	2101.0	2010.4	1912.1	1840.6	1785.7	1750.0	1758.9
7.5°	2432.9	2380.6	2256.7	2075.5	1921.0	1741.1	1589.2	1484.5	1388.8	1341.5	1336.4
10°	2412.5	2342.3	2161.0	1907.0	1679.8	1428.3	1206.2	1065.8	922.9	870.5	873.1
12.5°	2424.0	2325.7	2057.6	1733.4	1420.7	1093.9	828.4	636.9	502.9	459.5	454.4
15°	2431.6	2289.9	1958.1	1525.3	1133.5	745.4	479.9	361.2	319.1	311.5	310.2
17.5°	2402.3	2246.5	1817.7	1319.8	839.9	453.1	319.1	294.9	287.2	282.1	279.5
20°	2401.0	2221.0	1696.4	1109.2	560.4	308.9	275.7	266.8	255.3	251.5	251.5
22.5°	2379.3	2167.4	1550.9	878.2	357.4	265.5	247.6	233.6	220.8	215.7	214.4
25°	2372.9	2104.9	1414.3	659.9	271.9	237.4	219.5	199.1	183.8	176.1	172.3
27.5°	2355.0	2051.2	1276.4	464.6	237.4	211.9	188.9	167.2	149.3	137.9	136.6
30°	2291.2	1995.1	1123.3	321.7	215.7	187.6	162.1	136.6	118.7	111.1	108.5
32.5°	2264.4	1942.7	956.1	247.6	196.6	165.9	136.6	113.6	99.6	91.9	90.6
35°	2232.5	1866.2	793.9	215.7	178.7	144.2	114.9	95.7	84.2	77.9	77.9
37.5°	2236.3	1804.9	642.1	195.3	159.6	123.8	98.3	81.7	71.5	65.1	65.1
40°	2224.8	1756.4	499.1	177.4	141.7	105.9	83.0	68.9	60.0	53.6	52.3
42.5°	2277.2	1743.6	376.6	162.1	123.8	90.6	71.5	58.7	49.8	42.1	42.1
45°	2365.2	1764.0	293.6	148.1	105.9	77.9	61.3	48.5	39.6	34.5	33.2
47.5°	2600.1	1844.5	229.8	136.6	90.6	67.7	51.1	39.6	31.9	26.8	25.5
50°	2940.9	2024.4	195.3	120.0	76.6	57.4	42.1	30.6	25.5	20.4	19.1
52.5°	3426.0	2327.0	177.4	105.9	63.8	47.2	33.2	24.3	19.1	15.3	14.0
55°	3954.4	2704.8	160.8	89.4	53.6	38.3	26.8	19.1	14.0	10.2	8.9
57.5°	4366.7	3031.5	146.8	74.0	43.4	30.6	20.4	14.0	10.2	6.4	5.1
60°	4817.3	3261.3	128.9	58.7	35.7	23.0	15.3	10.2	7.7	3.8	3.8
62.5°	5281.9	3530.6	105.9	46.0	28.1	17.9	11.5	7.7	5.1	1.3	1.3
65°	5927.8	3741.3	81.7	35.7	21.7	12.8	8.9	6.4	2.6	0.0	0.0
67.5°	6110.3	3637.9	60.0	28.1	15.3	8.9	6.4	3.8	1.3	0.0	0.0
69°	5927.8	3276.6	52.3	24.3	12.8	7.7	5.1	2.6	1.3	0.0	0.0
70°	5594.6	2995.8	46.0	20.4	11.5	7.7	3.8	2.6	1.3	0.0	0.0
72.5°	4679.4	2297.6	35.7	15.3	8.9	6.4	3.8	2.6	0.0	0.0	0.0
75°	3432.4	1419.4	26.8	11.5	7.7	5.1	3.8	2.6	0.0	0.0	0.0
77.5°	1839.4	518.2	19.1	7.7	5.1	3.8	3.8	2.6	0.0	0.0	0.0
80°	504.2	153.2	14.0	5.1	3.8	2.6	2.6	1.3	0.0	0.0	0.0
82.5°	137.9	39.6	8.9	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
85°	74.0	15.3	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	5.1	3.8	2.6	2.6	1.3	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)