

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: P483886

Luminaire Tested: **IFLD-S-SA2C-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

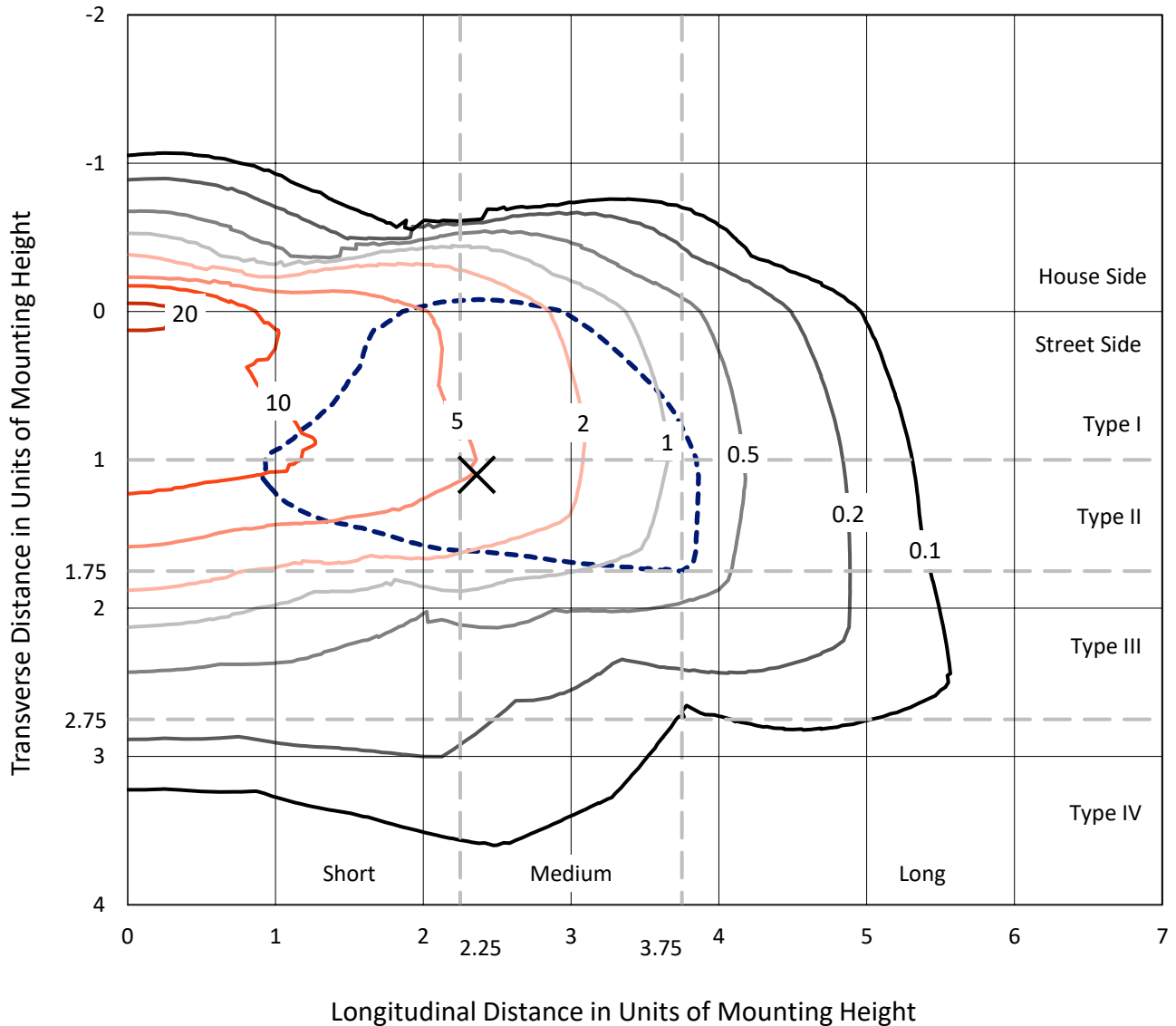
Lumens per Lamp: N/A
Luminaire Lumens: 9783.3 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

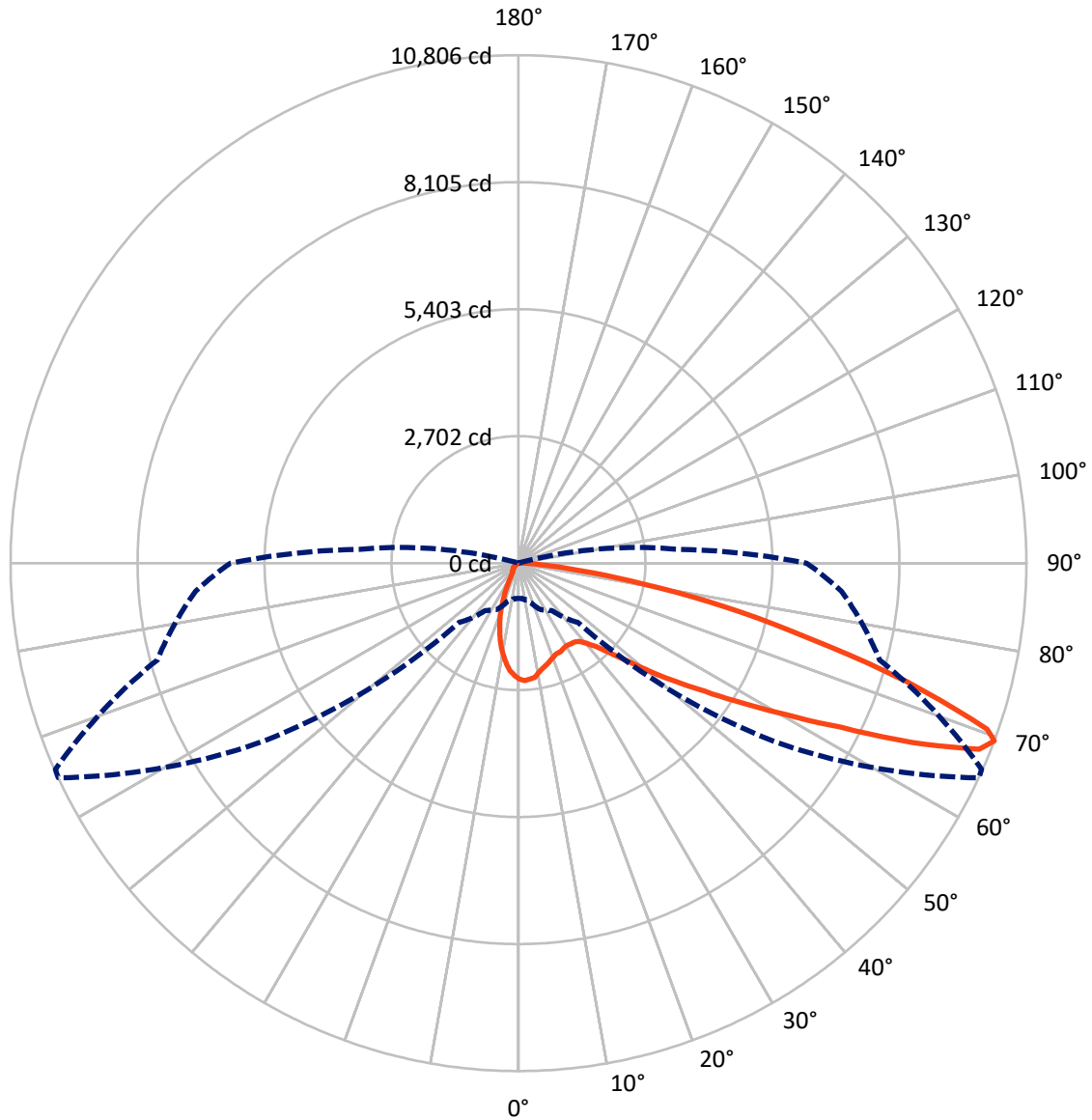
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 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	1186.8	0.0	1186.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8596.6	0.0	8596.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	9783.3	0.0	9783.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	2.1
10°-20°	441.6	4.5
20°-30°	614.9	6.3
30°-40°	871.3	8.9
40°-50°	1373.2	14.0
50°-60°	2228.2	22.8
60°-70°	2488.4	25.4
70°-80°	1401.3	14.3
80°-90°	162.6	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°	9783.3	100.0
0°-180°	9783.3	100.0



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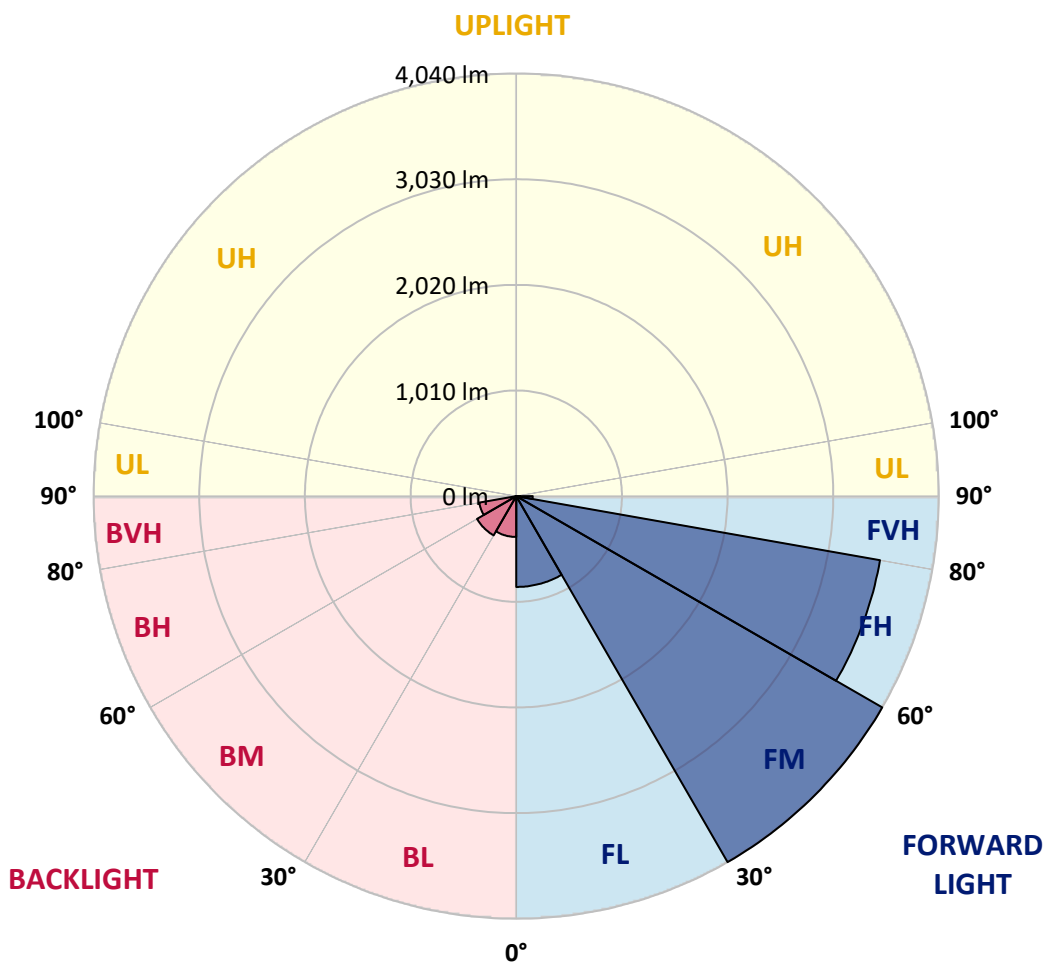
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.2	8.9			
FM (30°-60°)	4039.6	41.3			
FH (60°-80°)	3530.6	36.1			G2/5000
FVH (80°-90°)	158.1	1.6			G2/225
BL (0°-30°)	390.2	4.0	B1/500		
BM (30°-60°)	433.0	4.4	B1/1000		
BH (60°-80°)	359.1	3.7	B1/500		G1/500
BVH (80°-90°)	4.5	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°	66°	75°	85°
0°	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6
2.5°	2375.5	2394.0	2399.3	2417.8	2427.0	2466.6	2489.0	2502.2	2495.6	2510.2	2511.5
5°	2206.6	2196.1	2223.8	2243.6	2285.8	2354.4	2424.4	2478.5	2503.6	2527.3	2523.4
7.5°	2025.8	2020.5	2048.2	2093.1	2131.4	2214.5	2326.7	2460.0	2454.7	2512.8	2530.0
10°	1901.8	1907.0	1916.3	1961.1	2017.9	2102.4	2242.3	2366.3	2394.0	2516.8	2551.1
12.5°	1788.3	1797.5	1814.7	1860.8	1926.8	2013.9	2149.9	2295.0	2337.3	2494.3	2563.0
15°	1751.3	1730.2	1764.5	1798.8	1867.4	1945.3	2060.1	2240.9	2259.4	2467.9	2582.7
17.5°	1721.0	1707.8	1723.6	1751.3	1823.9	1887.2	1995.5	2182.9	2217.2	2457.4	2580.1
20°	1730.2	1718.3	1724.9	1746.0	1779.0	1838.4	1938.7	2127.4	2164.4	2408.5	2576.1
22.5°	1756.6	1765.8	1753.9	1759.2	1769.8	1800.1	1908.4	2087.8	2119.5	2399.3	2598.6
25°	1875.4	1859.5	1843.7	1837.1	1775.1	1788.3	1899.1	2085.2	2107.6	2366.3	2580.1
27.5°	1999.4	1986.2	1979.6	1941.3	1856.9	1817.3	1900.4	2048.2	2078.6	2353.1	2557.7
30°	2149.9	2167.0	2140.6	2094.4	1977.0	1879.3	1915.0	2029.8	2072.0	2303.0	2543.2
32.5°	2308.2	2317.5	2330.7	2296.4	2144.6	1973.0	1958.5	2046.9	2049.6	2303.0	2510.2
35°	2487.7	2474.5	2508.8	2511.5	2378.2	2139.3	2041.7	2058.8	2086.5	2292.4	2498.3
37.5°	2642.1	2664.6	2704.2	2767.5	2630.3	2374.2	2171.0	2114.2	2126.1	2341.2	2507.5
40°	2811.1	2833.5	2923.2	2986.6	2908.7	2638.2	2367.6	2243.6	2252.8	2413.8	2555.0
42.5°	2997.1	3040.7	3147.6	3258.5	3237.3	2973.4	2621.0	2433.6	2429.7	2594.6	2652.7
45°	3249.2	3307.3	3423.4	3551.4	3569.9	3357.4	2958.9	2717.4	2730.6	2830.9	2854.6
47.5°	3600.3	3597.6	3711.1	3853.7	3960.6	3756.0	3362.7	3098.8	3097.4	3204.3	3154.2
50°	3939.4	3940.8	3971.1	4136.1	4413.2	4309.0	3862.9	3605.6	3591.0	3643.8	3563.3
52.5°	4096.5	4078.0	4055.6	4254.9	4761.7	5005.8	4496.4	4179.6	4167.8	4136.1	4115.0
55°	3931.5	3938.1	3936.8	4144.0	4945.1	5740.9	5309.3	4811.8	4792.0	4693.0	4722.1
57.5°	3402.3	3381.2	3427.4	3750.7	4735.3	6242.4	6472.0	5608.9	5557.5	5228.8	5162.9
60°	2532.6	2539.2	2577.5	2958.9	4214.0	6348.0	7584.6	6544.6	6322.9	5606.3	5515.2
62.5°	1768.5	1755.3	1769.8	1983.6	3013.0	5925.7	8336.9	7682.3	7468.5	6035.2	5982.4
65°	1265.6	1248.5	1306.6	1437.2	1809.4	4530.7	8443.7	9197.3	9006.0	6720.2	6593.5
67.5°	910.6	908.0	975.3	1212.8	1285.4	2609.1	7651.9	10569.9	10453.7	7533.1	6965.6
69°	753.6	754.9	819.6	1086.2	1227.4	1781.7	6584.2	10806.1	10785.0	7952.8	6895.7
70°	657.2	662.5	737.7	1010.9	1203.6	1464.9	5676.2	10573.8	10552.7	8034.6	6664.7
72.5°	405.2	409.1	508.1	810.3	1144.2	1195.7	3394.4	8651.0	8723.5	7659.8	5742.2
75°	194.0	195.3	266.6	586.0	1103.3	1133.7	1818.6	6383.6	6536.7	6184.3	4487.1
77.5°	102.9	102.9	128.0	311.5	893.5	1066.4	1079.6	4503.0	4629.7	3910.4	2551.1
80°	51.5	52.8	77.9	162.3	554.3	1045.2	843.3	2685.7	2754.3	1595.6	794.5
82.5°	19.8	21.1	37.0	97.7	287.7	882.9	740.4	1321.1	1303.9	373.5	194.0
85°	2.6	2.6	13.2	58.1	122.7	389.3	611.0	551.7	533.2	81.8	93.7
87.5°	0.0	0.0	2.6	17.2	37.0	113.5	236.2	151.8	168.9	22.4	46.2
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°	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6	2466.6
2.5°	2504.9	2477.2	2434.9	2394.0	2350.5	2297.7	2239.6	2218.5	2181.5	2178.9	2200.0
5°	2502.2	2457.4	2383.5	2296.4	2172.3	2078.6	1977.0	1903.1	1846.3	1809.4	1818.6
7.5°	2515.4	2461.3	2333.3	2145.9	1986.2	1800.1	1643.1	1534.9	1435.9	1387.1	1381.8
10°	2494.3	2421.7	2234.3	1971.7	1736.8	1476.8	1247.2	1102.0	954.2	900.1	902.7
12.5°	2506.2	2404.6	2127.4	1792.2	1468.9	1131.0	856.5	658.6	520.0	475.1	469.8
15°	2514.1	2367.6	2024.5	1577.1	1171.9	770.7	496.2	373.5	329.9	322.0	320.7
17.5°	2483.8	2322.8	1879.3	1364.6	868.4	468.5	329.9	304.9	296.9	291.7	289.0
20°	2482.4	2296.4	1753.9	1146.9	579.4	319.4	285.1	275.8	263.9	260.0	260.0
22.5°	2460.0	2240.9	1603.5	908.0	369.5	274.5	256.0	241.5	228.3	223.0	221.7
25°	2453.4	2176.3	1462.3	682.3	281.1	245.5	227.0	205.9	190.0	182.1	178.2
27.5°	2434.9	2120.8	1319.7	480.4	245.5	219.1	195.3	172.9	154.4	142.5	141.2
30°	2368.9	2062.8	1161.4	332.6	223.0	194.0	167.6	141.2	122.7	114.8	112.2
32.5°	2341.2	2008.7	988.5	256.0	203.2	171.6	141.2	117.5	102.9	95.0	93.7
35°	2308.2	1929.5	820.9	223.0	184.8	149.1	118.8	99.0	87.1	80.5	80.5
37.5°	2312.2	1866.1	663.8	201.9	165.0	128.0	101.6	84.5	73.9	67.3	67.3
40°	2300.3	1816.0	516.0	183.4	146.5	109.5	85.8	71.3	62.0	55.4	54.1
42.5°	2354.4	1802.8	389.3	167.6	128.0	93.7	73.9	60.7	51.5	43.6	43.6
45°	2445.5	1823.9	303.5	153.1	109.5	80.5	63.3	50.2	40.9	35.6	34.3
47.5°	2688.3	1907.0	237.6	141.2	93.7	69.9	52.8	40.9	33.0	27.7	26.4
50°	3040.7	2093.1	201.9	124.1	79.2	59.4	43.6	31.7	26.4	21.1	19.8
52.5°	3542.2	2405.9	183.4	109.5	66.0	48.8	34.3	25.1	19.8	15.8	14.5
55°	4088.6	2796.5	166.3	92.4	55.4	39.6	27.7	19.8	14.5	10.6	9.2
57.5°	4514.9	3134.4	151.8	76.5	44.9	31.7	21.1	14.5	10.6	6.6	5.3
60°	4980.7	3372.0	133.3	60.7	37.0	23.8	15.8	10.6	7.9	4.0	4.0
62.5°	5461.1	3650.4	109.5	47.5	29.0	18.5	11.9	7.9	5.3	1.3	1.3
65°	6128.9	3868.2	84.5	37.0	22.4	13.2	9.2	6.6	2.6	0.0	0.0
67.5°	6317.6	3761.3	62.0	29.0	15.8	9.2	6.6	4.0	1.3	0.0	0.0
69°	6128.9	3387.8	54.1	25.1	13.2	7.9	5.3	2.6	1.3	0.0	0.0
70°	5784.5	3097.4	47.5	21.1	11.9	7.9	4.0	2.6	1.3	0.0	0.0
72.5°	4838.2	2375.5	37.0	15.8	9.2	6.6	4.0	2.6	0.0	0.0	0.0
75°	3548.8	1467.6	27.7	11.9	7.9	5.3	4.0	2.6	0.0	0.0	0.0
77.5°	1901.8	535.8	19.8	7.9	5.3	4.0	4.0	2.6	0.0	0.0	0.0
80°	521.3	158.4	14.5	5.3	4.0	2.6	2.6	1.3	0.0	0.0	0.0
82.5°	142.5	40.9	9.2	5.3	4.0	2.6	1.3	0.0	0.0	0.0	0.0
85°	76.5	15.8	5.3	4.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	39.6	5.3	4.0	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)