

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: P484275

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

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484275
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-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

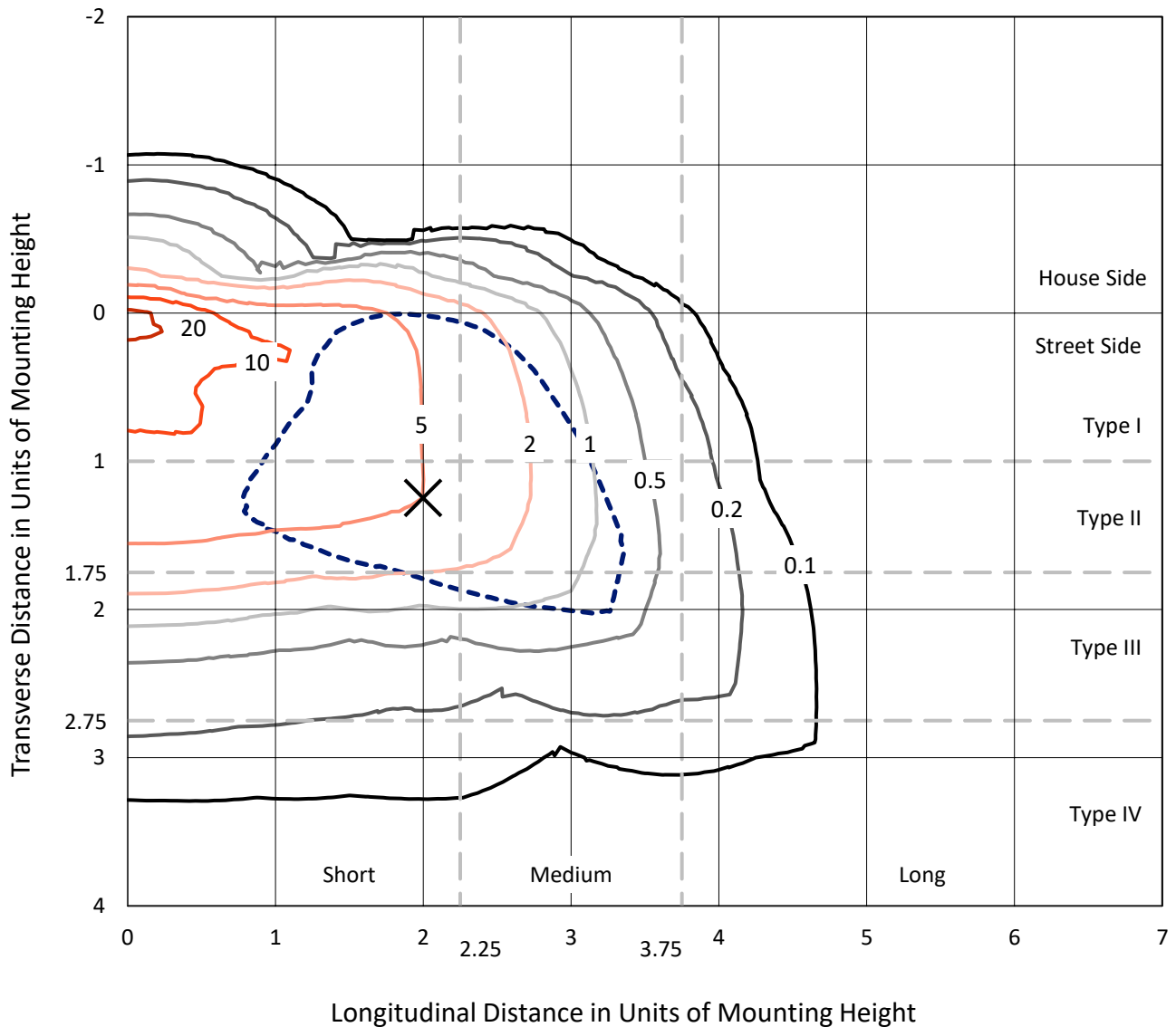
Lumens per Lamp: N/A
Luminaire Lumens: 7985.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

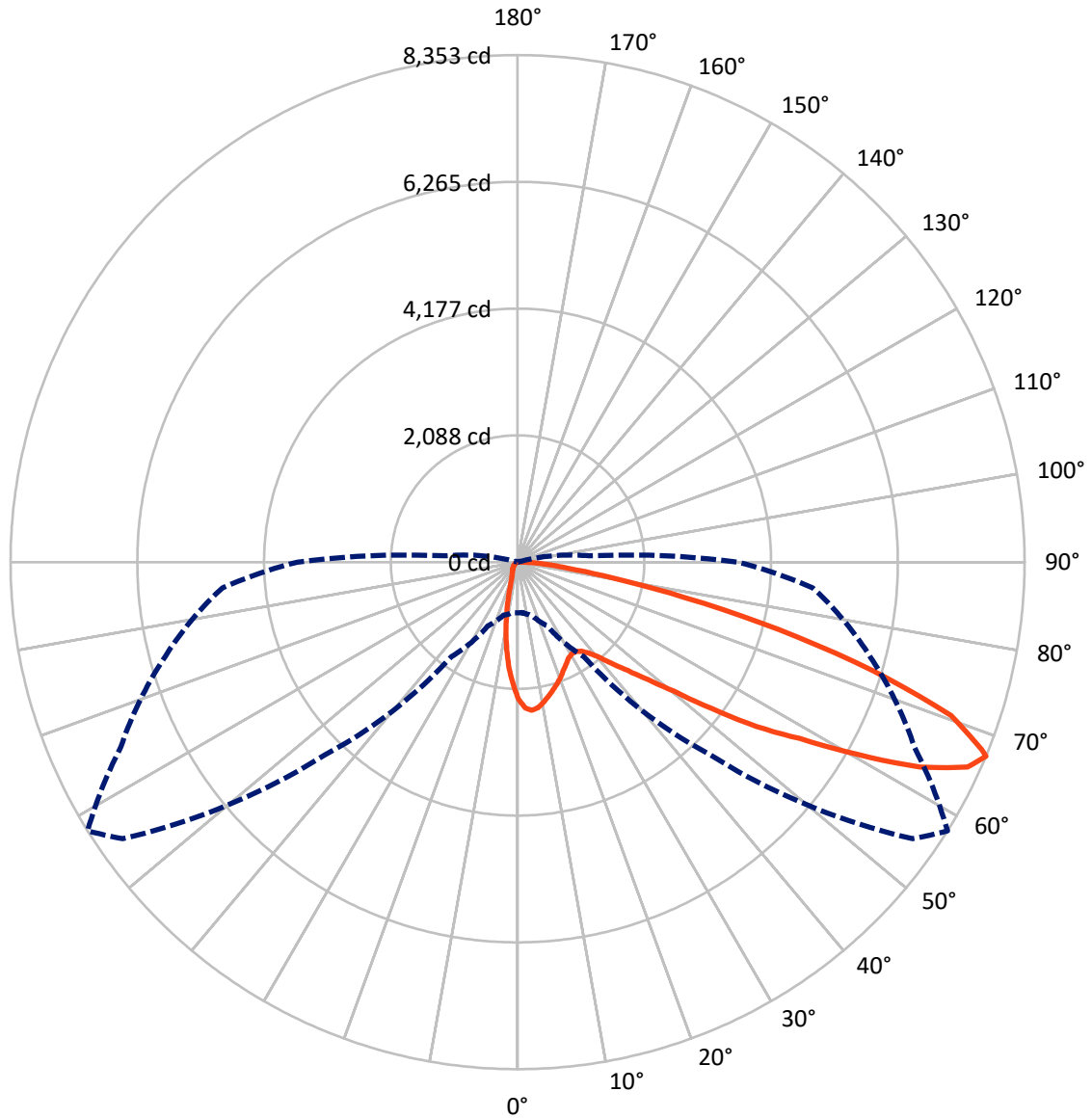
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.1	0.0	660.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	7325.5	0.0	7325.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	7985.5	0.0	7985.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	2.2
10°-20°	372.3	4.7
20°-30°	494.0	6.2
30°-40°	684.5	8.6
40°-50°	1117.0	14.0
50°-60°	1963.3	24.6
60°-70°	2174.5	27.2
70°-80°	901.1	11.3
80°-90°	99.2	1.2
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°	7985.5	100.0
0°-180°	7985.5	100.0

Coefficient of Utilization



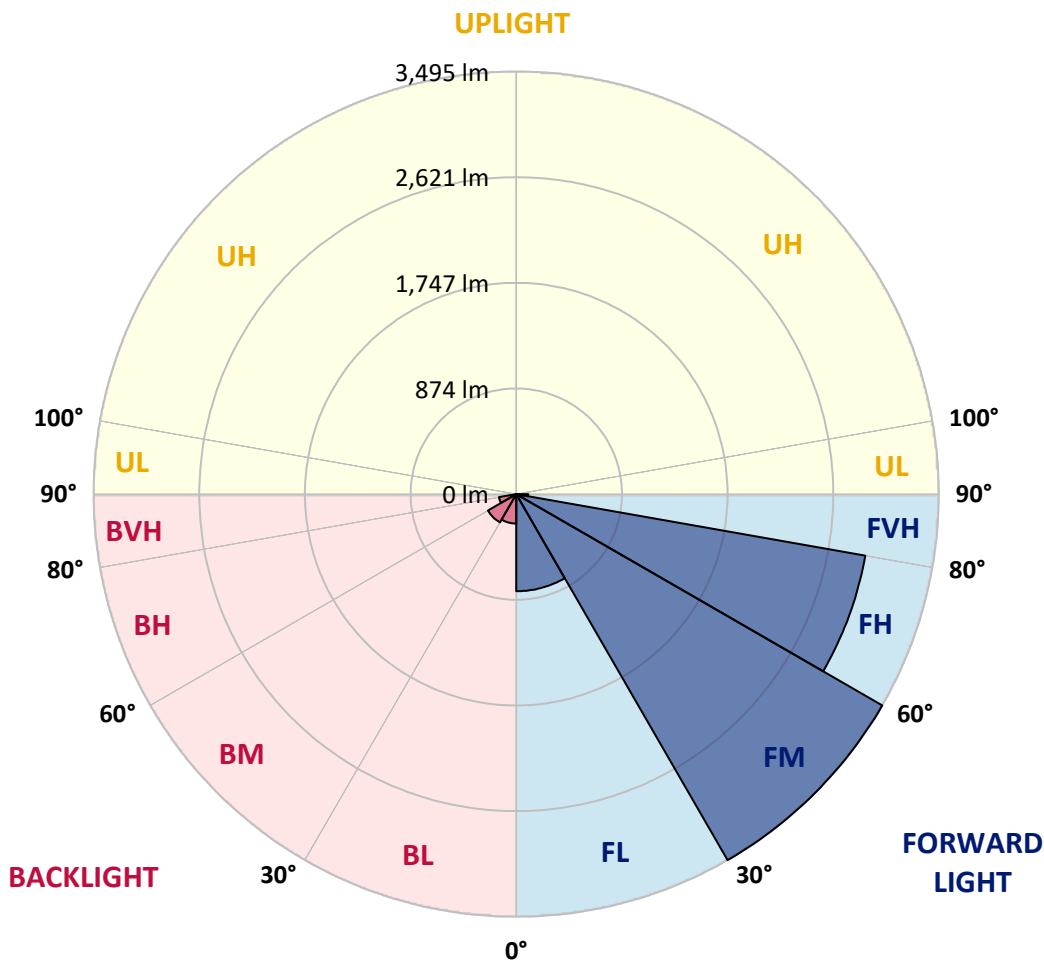
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.8	10.1			
FM (30°-60°)	3494.6	43.8			
FH (60°-80°)	2930.5	36.7			G2/5000
FVH (80°-90°)	97.6	1.2			G1/100
BL (0°-30°)	243.1	3.0	B1/500		
BM (30°-60°)	270.2	3.4	B1/1000		
BH (60°-80°)	145.1	1.8	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4
2.5°	2461.7	2470.2	2477.6	2463.8	2475.5	2458.5	2415.1	2405.5	2398.1	2333.4	2296.3
5°	2460.7	2451.1	2458.5	2464.9	2449.0	2461.7	2451.1	2452.2	2423.6	2365.2	2261.3
7.5°	2296.3	2292.1	2296.3	2327.1	2362.1	2389.6	2405.5	2421.4	2402.3	2315.4	2214.7
10°	2074.8	2096.0	2107.6	2162.7	2216.8	2267.7	2317.5	2347.2	2341.9	2306.9	2163.8
12.5°	1920.0	1913.6	1956.0	1992.1	2046.1	2149.0	2235.9	2263.5	2295.3	2246.5	2097.0
15°	1776.8	1759.9	1785.3	1847.9	1940.1	2021.7	2143.7	2185.0	2225.3	2238.0	2061.0
17.5°	1640.1	1648.6	1675.1	1731.3	1818.2	1932.7	2047.2	2106.6	2203.0	2186.1	2006.9
20°	1574.4	1592.4	1601.9	1630.5	1691.0	1805.5	1976.2	2023.9	2126.7	2185.0	1953.9
22.5°	1577.5	1577.5	1555.3	1572.2	1627.4	1716.4	1879.7	1932.7	2096.0	2129.9	1906.2
25°	1611.5	1590.3	1591.3	1571.2	1594.5	1643.3	1792.7	1857.4	2033.4	2135.2	1880.7
27.5°	1636.9	1632.7	1626.3	1621.0	1591.3	1598.7	1735.5	1788.5	2009.0	2128.8	1841.5
30°	1729.1	1710.1	1703.7	1692.0	1652.8	1616.8	1689.9	1756.7	1989.9	2143.7	1819.3
32.5°	1806.5	1809.7	1815.0	1781.1	1747.2	1658.1	1702.6	1755.6	1976.2	2177.6	1841.5
35°	1904.1	1917.9	1920.0	1909.4	1873.3	1785.3	1755.6	1801.2	1999.5	2238.0	1843.6
37.5°	2052.5	2037.6	2077.9	2082.2	2056.7	1940.1	1878.6	1896.6	2068.4	2334.5	1924.2
40°	2149.0	2167.0	2242.3	2288.9	2245.4	2139.4	2056.7	2053.6	2168.1	2486.1	2023.9
42.5°	2256.0	2296.3	2379.0	2479.7	2474.4	2375.8	2292.1	2278.3	2345.1	2705.6	2181.8
45°	2402.3	2438.4	2554.0	2705.6	2788.3	2704.5	2578.3	2550.8	2560.3	3004.5	2451.1
47.5°	2645.1	2635.6	2802.0	2951.5	3087.2	3022.5	2968.5	2887.9	2880.5	3356.5	2823.2
50°	2919.7	2917.6	3066.0	3235.6	3392.5	3518.7	3428.6	3340.6	3342.7	3834.6	3261.1
52.5°	3180.5	3221.9	3381.9	3550.5	3819.8	3955.5	4042.4	4007.4	3838.9	4261.9	3729.7
55°	3318.3	3354.4	3513.4	3803.9	4229.0	4577.8	4813.2	4783.5	4458.0	4743.2	4191.9
57.5°	3187.9	3212.3	3427.5	3808.1	4515.3	5293.4	5519.3	5482.1	5098.4	5111.1	4750.6
60°	2641.9	2680.1	3000.3	3446.6	4404.0	5844.7	6491.4	6435.2	5681.5	5576.5	5110.0
62.5°	1829.9	1855.3	2118.2	2673.8	3876.0	6036.6	7409.5	7440.3	6296.4	5939.1	5217.1
65°	1185.3	1183.2	1333.7	1710.1	2746.9	5455.6	7952.3	8143.2	6890.1	5994.2	5184.2
67°	837.5	834.4	905.4	1159.8	1901.9	4495.1	7942.8	8353.1	7212.3	6010.1	4880.0
67.5°	772.9	769.7	837.5	1066.5	1716.4	4180.3	7824.1	8245.0	7325.8	5987.8	4746.4
70°	600.1	591.6	617.0	734.7	999.7	2703.4	6696.0	7573.9	7090.4	5432.3	3790.1
72.5°	433.6	443.2	483.4	603.2	784.5	1454.6	5103.7	6124.6	5922.1	4094.4	2408.7
75°	302.1	310.6	375.3	491.9	719.9	882.1	3450.9	4442.1	4125.1	2260.3	1026.2
77.5°	158.0	168.6	239.6	393.3	654.1	682.8	2062.0	2816.9	2186.1	804.7	283.1
80°	73.2	78.5	119.8	278.8	547.0	600.1	1202.2	1566.9	874.6	180.2	97.5
82.5°	31.8	35.0	55.1	160.1	388.0	524.8	744.2	821.6	317.0	58.3	60.4
85°	6.4	7.4	21.2	84.8	187.7	318.1	522.7	487.7	159.0	28.6	47.7
87.5°	0.0	0.0	5.3	24.4	50.9	94.4	221.6	221.6	48.8	14.8	18.0
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°	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4	2262.4
2.5°	2263.5	2225.3	2141.5	2064.2	2009.0	1946.5	1863.8	1826.7	1812.9	1793.8	1765.2
5°	2204.1	2157.4	2014.3	1870.1	1712.2	1592.4	1465.2	1390.9	1334.8	1299.8	1288.1
7.5°	2120.3	2024.9	1832.0	1600.9	1396.2	1218.1	1025.2	894.8	811.0	777.1	745.3
10°	2053.6	1929.5	1635.8	1348.5	1076.1	815.3	597.9	483.4	396.5	363.6	359.4
12.5°	1966.6	1818.2	1452.4	1090.9	748.5	485.6	330.8	287.3	262.9	258.7	255.5
15°	1894.5	1717.5	1278.6	845.0	484.5	303.2	257.6	247.0	240.7	238.5	239.6
17.5°	1845.8	1609.3	1100.5	614.9	319.1	248.1	237.5	231.1	227.9	226.9	223.7
20°	1749.3	1518.2	924.5	430.4	249.1	229.0	220.5	215.2	212.0	211.0	209.9
22.5°	1694.2	1402.6	748.5	300.0	221.6	207.8	201.4	197.2	191.9	188.7	187.7
25°	1639.0	1317.8	591.6	233.2	201.4	191.9	182.3	177.0	168.6	164.3	163.3
27.5°	1574.4	1234.0	455.9	202.5	181.3	171.7	162.2	153.7	143.1	138.9	136.8
30°	1537.2	1152.4	343.5	181.3	166.4	153.7	142.1	131.5	119.8	112.4	110.3
32.5°	1518.2	1078.2	257.6	165.4	150.5	136.8	121.9	109.2	98.6	92.2	91.2
35°	1494.8	1006.1	202.5	150.5	135.7	120.9	106.0	93.3	82.7	77.4	75.3
37.5°	1519.2	963.7	168.6	138.9	124.0	107.1	91.2	78.5	70.0	64.7	63.6
40°	1586.0	928.7	146.3	128.3	112.4	94.4	79.5	66.8	59.4	55.1	53.0
42.5°	1688.9	928.7	132.5	117.7	101.8	82.7	67.9	58.3	50.9	46.6	45.6
45°	1875.4	957.3	120.9	107.1	89.1	71.0	58.3	48.8	41.3	37.1	36.0
47.5°	2137.3	1023.1	111.3	97.5	79.5	62.6	50.9	41.3	33.9	29.7	28.6
50°	2489.3	1172.5	101.8	85.9	71.0	54.1	42.4	32.9	26.5	22.3	21.2
52.5°	2928.2	1384.6	92.2	79.5	60.4	45.6	33.9	26.5	20.1	17.0	15.9
55°	3392.5	1644.3	80.6	71.0	51.9	38.2	27.6	20.1	14.8	12.7	11.7
57.5°	3860.1	1844.7	71.0	61.5	42.4	30.7	22.3	15.9	10.6	8.5	7.4
60°	4108.2	1863.8	61.5	50.9	33.9	24.4	17.0	11.7	7.4	5.3	4.2
62.5°	4146.3	1694.2	53.0	41.3	27.6	19.1	11.7	8.5	4.2	2.1	2.1
65°	3950.2	1412.1	45.6	32.9	21.2	13.8	8.5	5.3	2.1	1.1	0.0
67°	3632.1	1183.2	39.2	27.6	17.0	10.6	6.4	3.2	1.1	0.0	0.0
67.5°	3509.2	1119.5	37.1	25.4	15.9	9.5	5.3	3.2	1.1	0.0	0.0
70°	2723.6	799.4	27.6	18.0	11.7	7.4	4.2	2.1	0.0	0.0	0.0
72.5°	1668.7	467.5	21.2	12.7	8.5	5.3	3.2	1.1	0.0	0.0	0.0
75°	699.7	161.1	18.0	9.5	6.4	3.2	2.1	1.1	0.0	0.0	0.0
77.5°	182.3	60.4	12.7	6.4	4.2	3.2	2.1	1.1	0.0	0.0	0.0
80°	74.2	27.6	8.5	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0
82.5°	48.8	12.7	5.3	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
85°	37.1	7.4	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	4.2	3.2	2.1	2.1	0.0	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)