

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: P484430

Luminaire Tested: **IFLD-S-SA2A-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484430  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

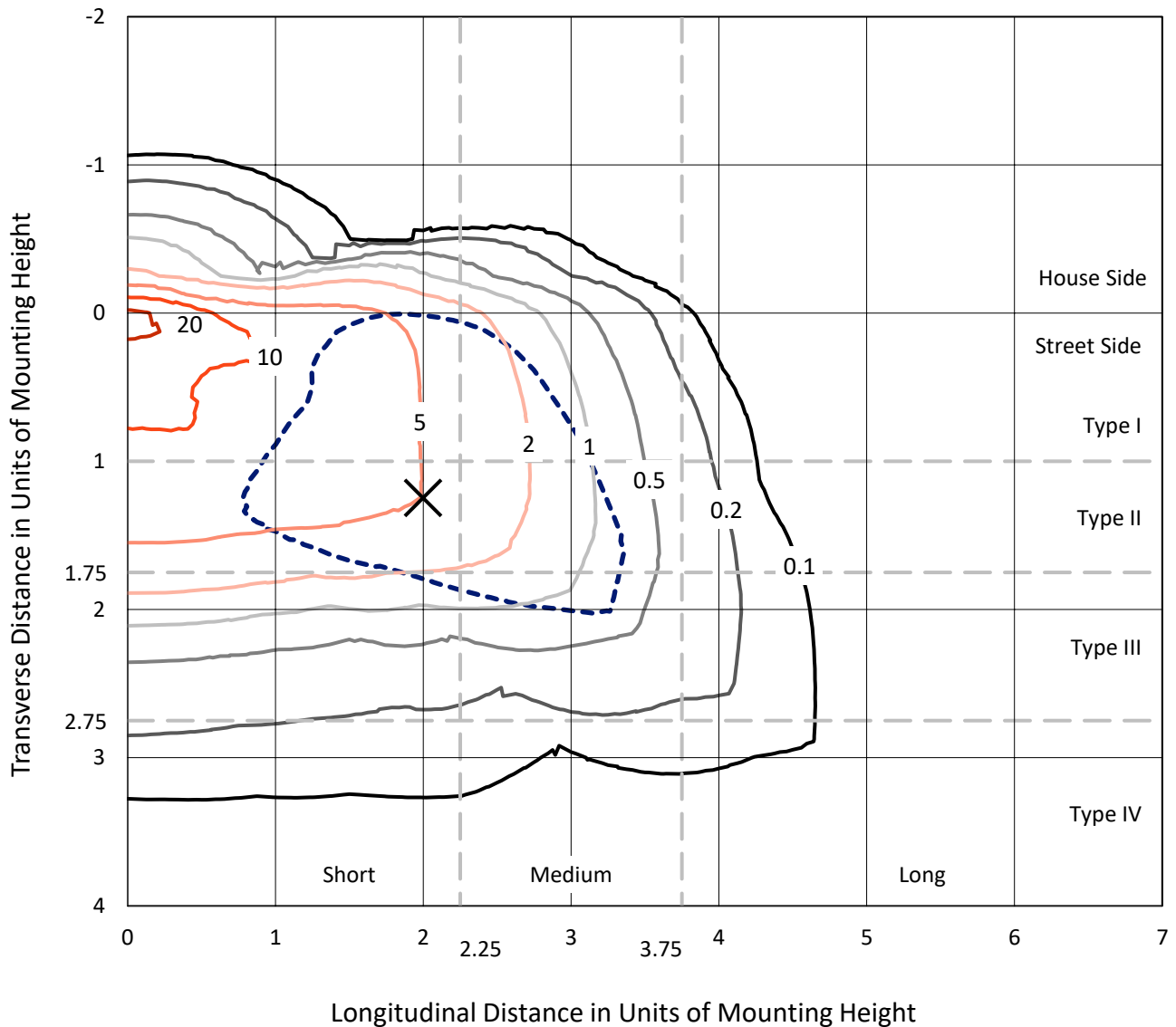
Lumens per Lamp: N/A  
Luminaire Lumens: 7897.7 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

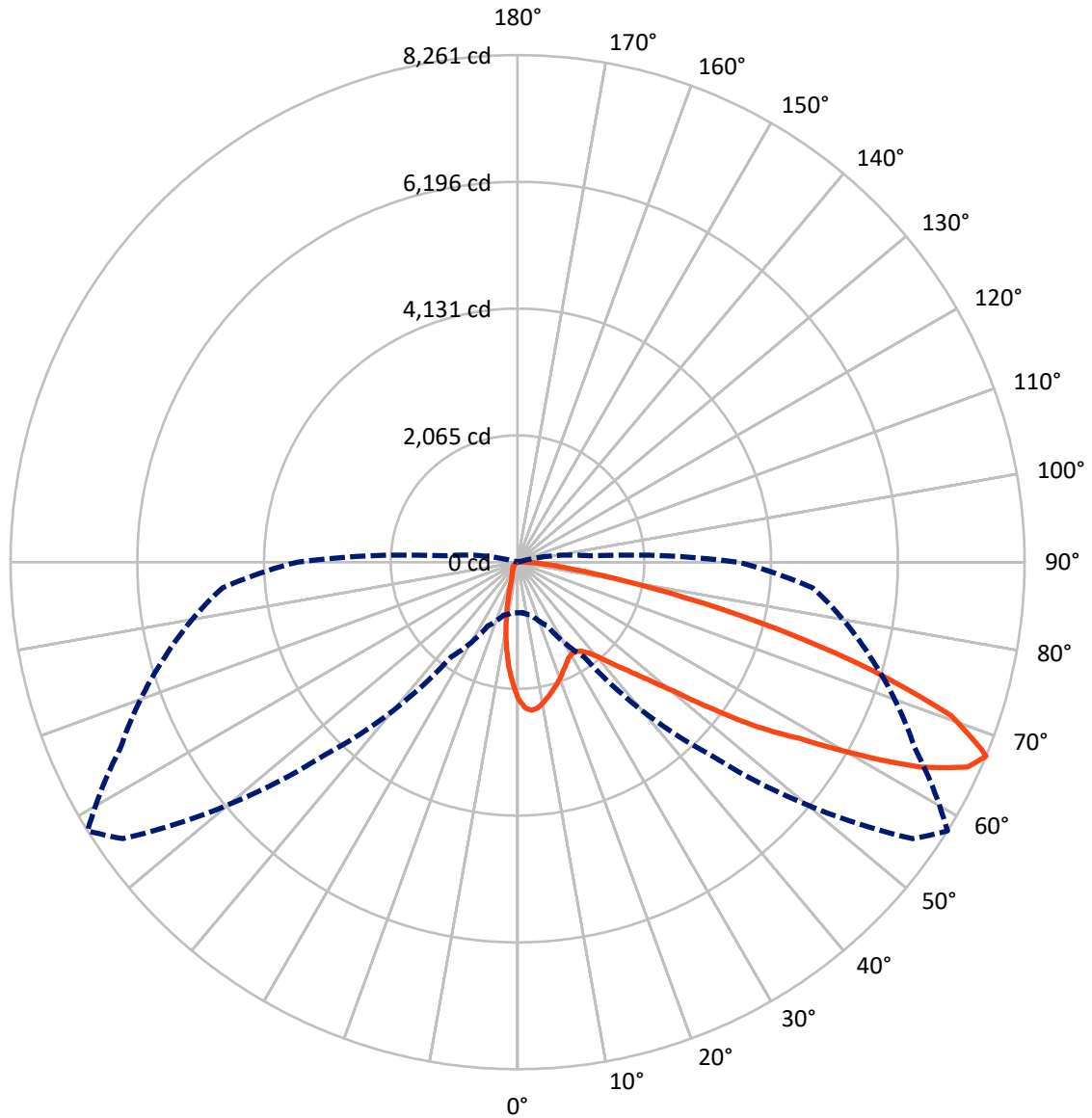
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 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
<b>House Side</b>	Lumens	652.8	0.0	652.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	7244.9	0.0	7244.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	7897.7	0.0	7897.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.5	2.2
10°-20°	368.2	4.7
20°-30°	488.6	6.2
30°-40°	677.0	8.6
40°-50°	1104.7	14.0
50°-60°	1941.7	24.6
60°-70°	2150.6	27.2
70°-80°	891.2	11.3
80°-90°	98.1	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°	7897.7	100.0
0°-180°	7897.7	100.0

**Coefficient of Utilization**



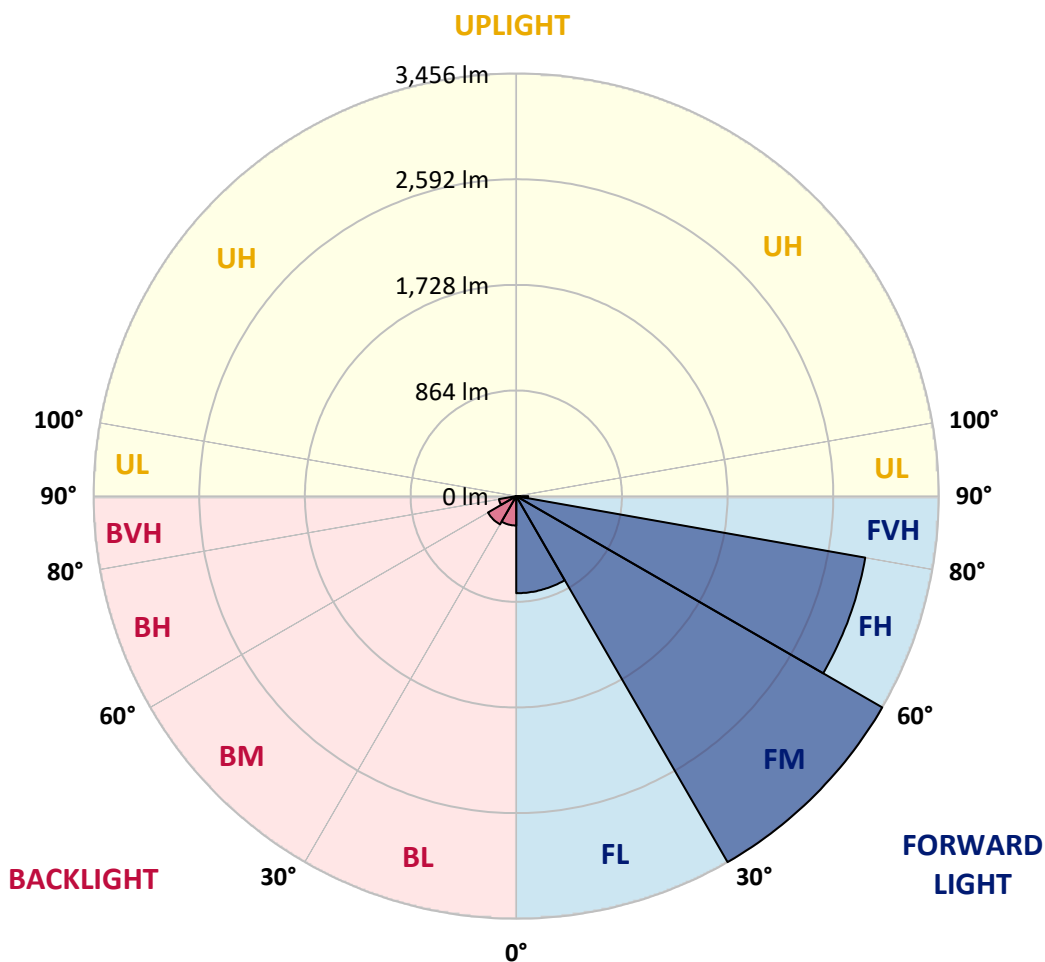
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.9	10.1			
FM (30°-60°)	3456.2	43.8			
FH (60°-80°)	2898.3	36.7			G2/5000
FVH (80°-90°)	96.5	1.2			G1/100
BL (0°-30°)	240.4	3.0	B1/500		
BM (30°-60°)	267.2	3.4	B1/1000		
BH (60°-80°)	143.5	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°	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5
2.5°	2434.6	2443.0	2450.4	2436.7	2448.3	2431.5	2388.5	2379.1	2371.7	2307.8	2271.1
5°	2433.6	2424.2	2431.5	2437.8	2422.1	2434.6	2424.2	2425.2	2396.9	2339.2	2236.5
7.5°	2271.1	2266.9	2271.1	2301.5	2336.1	2363.3	2379.1	2394.8	2375.9	2289.9	2190.3
10°	2051.9	2072.9	2084.4	2139.0	2192.4	2242.8	2292.0	2321.4	2316.2	2281.6	2140.0
12.5°	1898.8	1892.6	1934.5	1970.1	2023.6	2125.3	2211.3	2238.6	2270.0	2221.8	2073.9
15°	1757.3	1740.5	1765.7	1827.6	1918.8	1999.5	2120.1	2161.0	2200.8	2213.4	2038.3
17.5°	1622.0	1630.4	1656.6	1712.2	1798.2	1911.4	2024.7	2083.4	2178.8	2162.0	1984.8
20°	1557.0	1574.9	1584.3	1612.6	1672.4	1785.6	1954.4	2001.6	2103.3	2161.0	1932.4
22.5°	1560.2	1560.2	1538.2	1554.9	1609.5	1697.5	1859.0	1911.4	2072.9	2106.5	1885.2
25°	1593.7	1572.8	1573.8	1553.9	1577.0	1625.2	1773.0	1837.0	2011.0	2111.7	1860.1
27.5°	1618.9	1614.7	1608.4	1603.2	1573.8	1581.2	1716.4	1768.8	1986.9	2105.4	1821.3
30°	1710.1	1691.2	1685.0	1673.4	1634.6	1599.0	1671.3	1737.4	1968.1	2120.1	1799.2
32.5°	1786.7	1789.8	1795.0	1761.5	1727.9	1639.9	1683.9	1736.3	1954.4	2153.6	1821.3
35°	1883.1	1896.8	1898.8	1888.4	1852.7	1765.7	1736.3	1781.4	1977.5	2213.4	1823.4
37.5°	2029.9	2015.2	2055.1	2059.3	2034.1	1918.8	1858.0	1875.8	2045.6	2308.8	1903.0
40°	2125.3	2143.2	2217.6	2263.7	2220.7	2115.9	2034.1	2031.0	2144.2	2458.8	2001.6
42.5°	2231.2	2271.1	2352.9	2452.5	2447.2	2349.7	2266.9	2253.2	2319.3	2675.8	2157.8
45°	2375.9	2411.6	2525.9	2675.8	2757.6	2674.7	2550.0	2522.7	2532.1	2971.5	2424.2
47.5°	2616.0	2606.6	2771.2	2919.0	3053.3	2989.3	2935.8	2856.1	2848.8	3319.6	2792.2
50°	2887.6	2885.5	3032.3	3200.0	3355.2	3480.0	3390.9	3303.9	3305.9	3792.5	3225.2
52.5°	3145.5	3186.4	3344.7	3511.5	3777.8	3912.0	3998.0	3963.4	3796.6	4215.0	3688.7
55°	3281.8	3317.5	3474.8	3762.0	4182.5	4527.5	4760.2	4730.9	4409.0	4691.0	4145.8
57.5°	3152.9	3177.0	3389.8	3766.2	4465.6	5235.2	5458.5	5421.8	5042.3	5054.9	4698.4
60°	2612.9	2650.6	2967.3	3408.7	4355.5	5780.4	6420.0	6364.4	5619.0	5515.2	5053.8
62.5°	1809.7	1834.9	2094.9	2644.3	3833.3	5970.2	7328.0	7358.4	6227.1	5873.7	5159.7
65°	1172.2	1170.1	1319.0	1691.2	2716.7	5395.6	7864.9	8053.6	6814.3	5928.3	5127.2
67°	828.3	825.2	895.4	1147.1	1881.0	4445.7	7855.4	8261.2	7133.0	5944.0	4826.3
67.5°	764.4	761.2	828.3	1054.8	1697.5	4134.3	7738.0	8154.3	7245.2	5922.0	4694.2
70°	593.5	585.1	610.2	726.6	988.7	2673.7	6622.4	7490.5	7012.4	5372.6	3748.4
72.5°	428.8	438.3	478.1	596.6	775.9	1438.6	5047.5	6057.2	5857.0	4049.3	2382.2
75°	298.8	307.2	371.2	486.5	711.9	872.4	3412.9	4393.3	4079.7	2235.4	1015.0
77.5°	156.2	166.7	237.0	389.0	646.9	675.2	2039.3	2785.9	2162.0	795.8	280.0
80°	72.3	77.6	118.5	275.8	541.0	593.5	1189.0	1549.7	865.0	178.2	96.5
82.5°	31.5	34.6	54.5	158.3	383.8	519.0	736.1	812.6	313.5	57.7	59.8
85°	6.3	7.3	21.0	83.9	185.6	314.6	516.9	482.3	157.3	28.3	47.2
87.5°	0.0	0.0	5.2	24.1	50.3	93.3	219.1	219.1	48.2	14.7	17.8
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°	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5	2237.5
2.5°	2238.6	2200.8	2118.0	2041.4	1986.9	1925.1	1843.3	1806.6	1792.9	1774.1	1745.8
5°	2179.8	2133.7	1992.2	1849.6	1693.3	1574.9	1449.0	1375.6	1320.1	1285.5	1273.9
7.5°	2097.0	2002.7	1811.8	1583.2	1380.9	1204.7	1013.9	884.9	802.1	768.6	737.1
10°	2031.0	1908.3	1617.8	1333.7	1064.2	806.3	591.4	478.1	392.1	359.6	355.4
12.5°	1945.0	1798.2	1436.5	1078.9	740.2	480.2	327.1	284.1	260.0	255.8	252.7
15°	1873.7	1698.6	1264.5	835.7	479.2	299.9	254.8	244.3	238.0	235.9	237.0
17.5°	1825.5	1591.6	1088.4	608.1	315.6	245.4	234.9	228.6	225.4	224.4	221.2
20°	1730.0	1501.5	914.3	425.7	246.4	226.5	218.1	212.8	209.7	208.7	207.6
22.5°	1675.5	1387.2	740.2	296.7	219.1	205.5	199.2	195.0	189.8	186.6	185.6
25°	1621.0	1303.3	585.1	230.7	199.2	189.8	180.3	175.1	166.7	162.5	161.5
27.5°	1557.0	1220.5	450.9	200.3	179.3	169.9	160.4	152.0	141.5	137.4	135.3
30°	1520.3	1139.7	339.7	179.3	164.6	152.0	140.5	130.0	118.5	111.1	109.0
32.5°	1501.5	1066.3	254.8	163.6	148.9	135.3	120.6	108.0	97.5	91.2	90.2
35°	1478.4	995.0	200.3	148.9	134.2	119.5	104.9	92.3	81.8	76.5	74.4
37.5°	1502.5	953.1	166.7	137.4	122.7	105.9	90.2	77.6	69.2	64.0	62.9
40°	1568.6	918.5	144.7	126.9	111.1	93.3	78.6	66.1	58.7	54.5	52.4
42.5°	1670.3	918.5	131.1	116.4	100.7	81.8	67.1	57.7	50.3	46.1	45.1
45°	1854.8	946.8	119.5	105.9	88.1	70.3	57.7	48.2	40.9	36.7	35.6
47.5°	2113.8	1011.8	110.1	96.5	78.6	61.9	50.3	40.9	33.6	29.4	28.3
50°	2461.9	1159.7	100.7	84.9	70.3	53.5	41.9	32.5	26.2	22.0	21.0
52.5°	2896.0	1369.4	91.2	78.6	59.8	45.1	33.6	26.2	19.9	16.8	15.7
55°	3355.2	1626.2	79.7	70.3	51.4	37.7	27.3	19.9	14.7	12.6	11.5
57.5°	3817.6	1824.4	70.3	60.8	41.9	30.4	22.0	15.7	10.5	8.4	7.3
60°	4063.0	1843.3	60.8	50.3	33.6	24.1	16.8	11.5	7.3	5.2	4.2
62.5°	4100.7	1675.5	52.4	40.9	27.3	18.9	11.5	8.4	4.2	2.1	2.1
65°	3906.7	1396.6	45.1	32.5	21.0	13.6	8.4	5.2	2.1	1.0	0.0
67°	3592.2	1170.1	38.8	27.3	16.8	10.5	6.3	3.1	1.0	0.0	0.0
67.5°	3470.6	1107.2	36.7	25.2	15.7	9.4	5.2	3.1	1.0	0.0	0.0
70°	2693.6	790.6	27.3	17.8	11.5	7.3	4.2	2.1	0.0	0.0	0.0
72.5°	1650.4	462.4	21.0	12.6	8.4	5.2	3.1	1.0	0.0	0.0	0.0
75°	692.0	159.4	17.8	9.4	6.3	3.1	2.1	1.0	0.0	0.0	0.0
77.5°	180.3	59.8	12.6	6.3	4.2	3.1	2.1	1.0	0.0	0.0	0.0
80°	73.4	27.3	8.4	4.2	4.2	3.1	2.1	1.0	0.0	0.0	0.0
82.5°	48.2	12.6	5.2	4.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0
85°	36.7	7.3	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	4.2	3.1	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)