

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: P484509

Luminaire Tested: **IFLD-S-SA2B-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

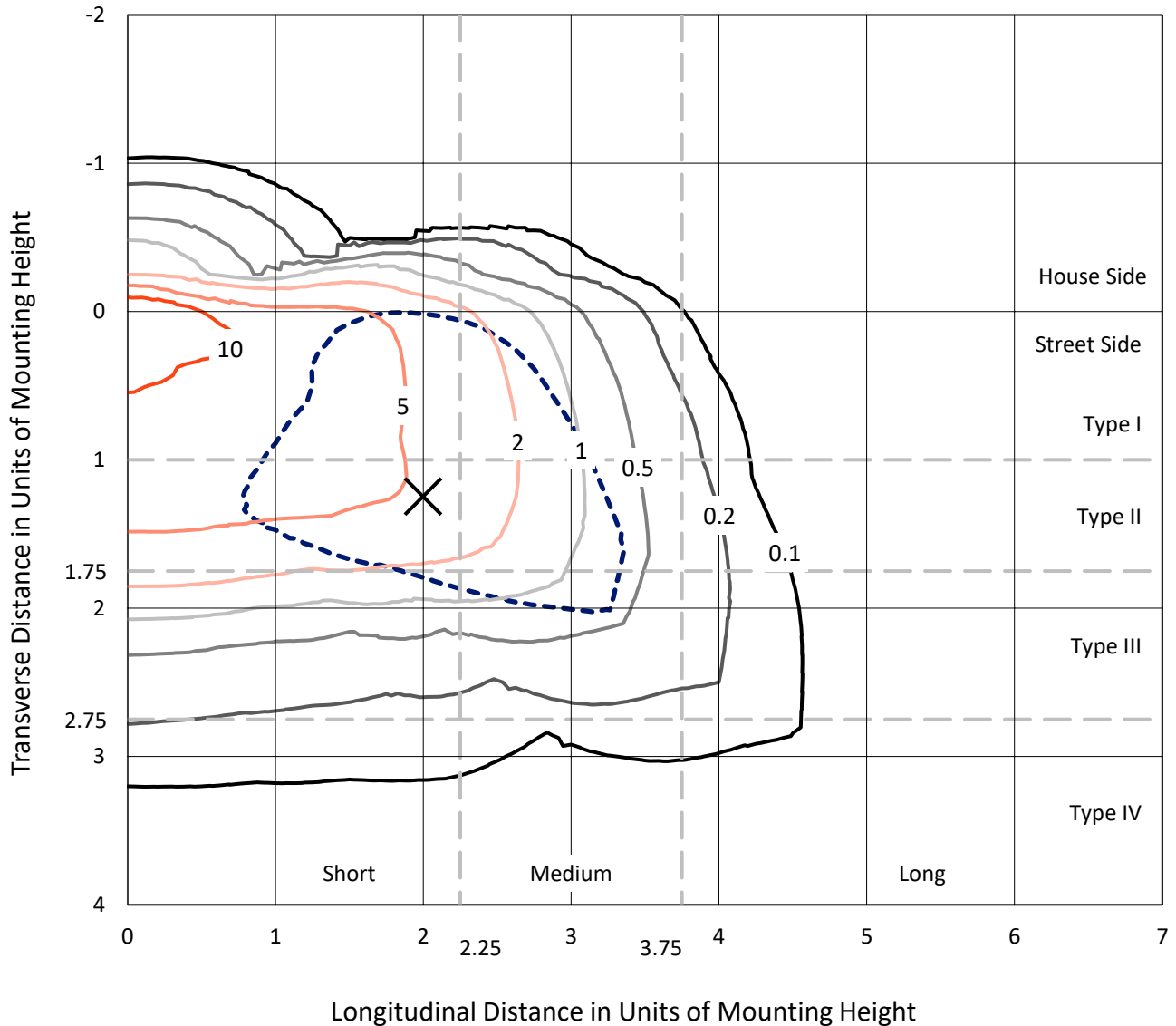
Lumens per Lamp: N/A  
Luminaire Lumens: 7019.2 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

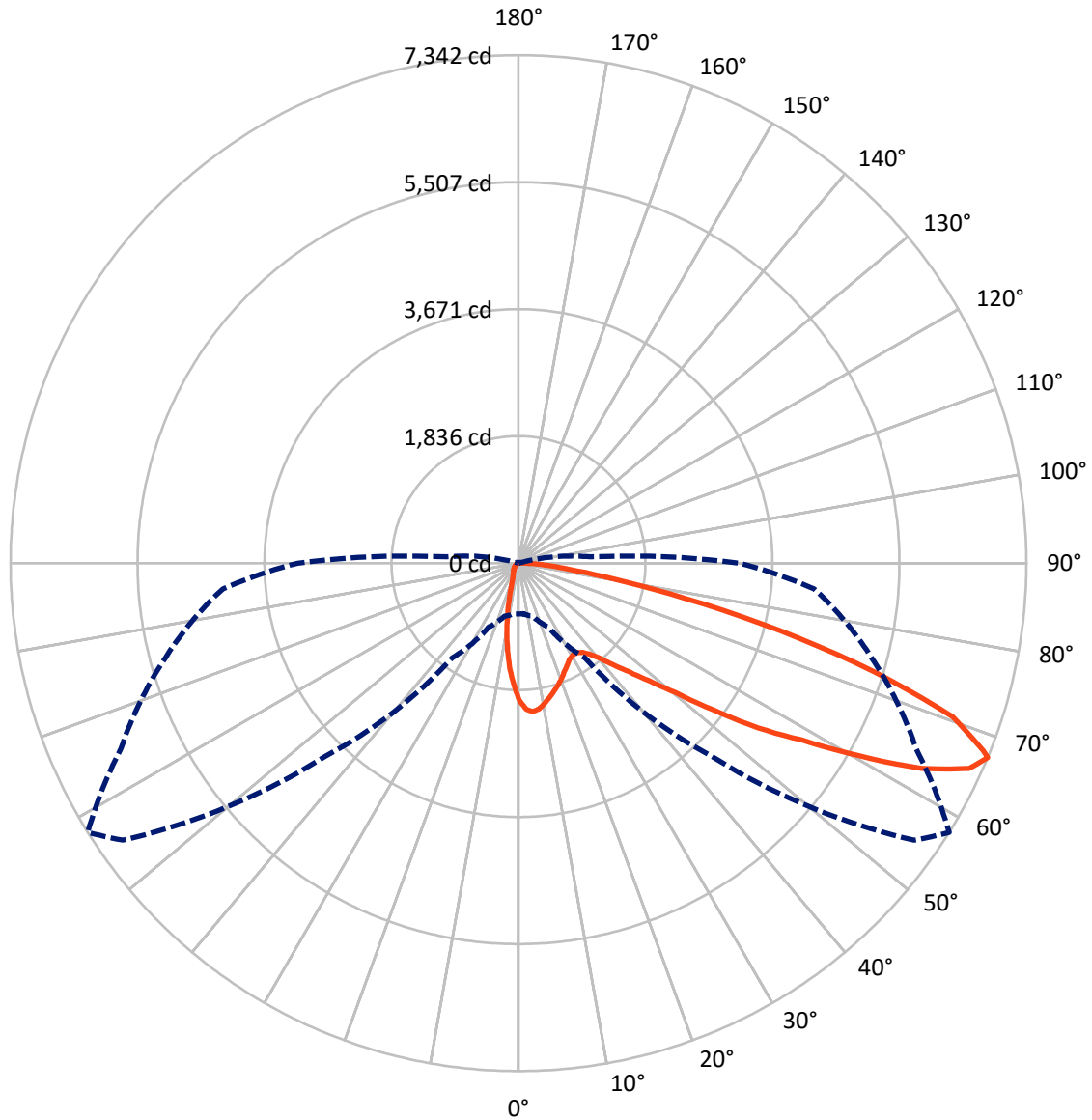
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 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	580.2	0.0	580.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	6439.0	0.0	6439.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	7019.2	0.0	7019.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.8	2.2
10°-20°	327.3	4.7
20°-30°	434.2	6.2
30°-40°	601.7	8.6
40°-50°	981.8	14.0
50°-60°	1725.7	24.6
60°-70°	1911.4	27.2
70°-80°	792.1	11.3
80°-90°	87.2	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°	7019.2	100.0
0°-180°	7019.2	100.0

**Coefficient of Utilization**



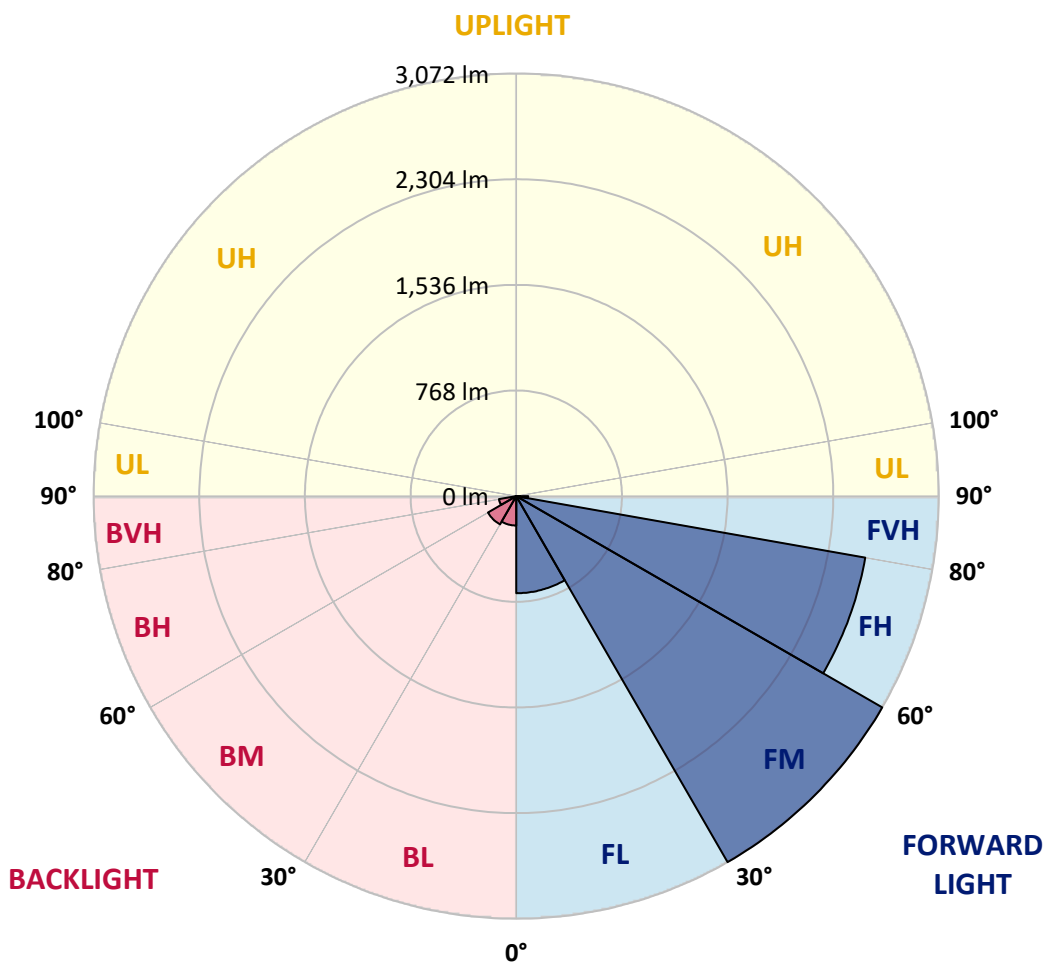
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.6	10.1			
FM (30°-60°)	3071.7	43.8			
FH (60°-80°)	2575.9	36.7			G2/5000
FVH (80°-90°)	85.8	1.2			G1/100
BL (0°-30°)	213.7	3.0	B1/500		
BM (30°-60°)	237.5	3.4	B1/1000		
BH (60°-80°)	127.6	1.8	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6
2.5°	2163.8	2171.3	2177.8	2165.7	2175.9	2161.0	2122.8	2114.4	2107.9	2051.1	2018.5
5°	2162.9	2154.5	2161.0	2166.6	2152.6	2163.8	2154.5	2155.4	2130.3	2079.0	1987.7
7.5°	2018.5	2014.7	2018.5	2045.5	2076.2	2100.5	2114.4	2128.4	2111.6	2035.2	1946.7
10°	1823.7	1842.3	1852.6	1901.0	1948.6	1993.3	2037.1	2063.2	2058.5	2027.8	1902.0
12.5°	1687.6	1682.0	1719.3	1751.0	1798.5	1888.9	1965.3	1989.6	2017.5	1974.7	1843.3
15°	1561.8	1546.9	1569.3	1624.3	1705.3	1777.1	1884.3	1920.6	1956.0	1967.2	1811.6
17.5°	1441.6	1449.1	1472.4	1521.8	1598.2	1698.8	1799.5	1851.6	1936.4	1921.5	1764.1
20°	1383.8	1399.7	1408.1	1433.2	1486.3	1587.0	1737.0	1779.0	1869.4	1920.6	1717.5
22.5°	1386.6	1386.6	1367.1	1382.0	1430.4	1508.7	1652.2	1698.8	1842.3	1872.1	1675.5
25°	1416.5	1397.8	1398.8	1381.0	1401.5	1444.4	1575.8	1632.7	1787.3	1876.8	1653.2
27.5°	1438.8	1435.1	1429.5	1424.8	1398.8	1405.3	1525.5	1572.1	1765.9	1871.2	1618.7
30°	1519.9	1503.1	1497.5	1487.3	1452.8	1421.1	1485.4	1544.1	1749.1	1884.3	1599.1
32.5°	1587.9	1590.7	1595.4	1565.6	1535.7	1457.5	1496.6	1543.2	1737.0	1914.1	1618.7
35°	1673.7	1685.8	1687.6	1678.3	1646.6	1569.3	1543.2	1583.3	1757.5	1967.2	1620.5
37.5°	1804.1	1791.1	1826.5	1830.2	1807.8	1705.3	1651.3	1667.1	1818.1	2052.0	1691.4
40°	1888.9	1904.8	1970.9	2011.9	1973.7	1880.5	1807.8	1805.1	1905.7	2185.3	1779.0
42.5°	1983.0	2018.5	2091.1	2179.7	2175.0	2088.3	2014.7	2002.6	2061.3	2378.2	1917.8
45°	2111.6	2143.3	2244.9	2378.2	2450.8	2377.2	2266.3	2242.1	2250.5	2641.0	2154.5
47.5°	2325.0	2316.7	2463.0	2594.4	2713.6	2656.8	2609.3	2538.4	2531.9	2950.3	2481.6
50°	2566.4	2564.5	2695.0	2844.1	2982.0	3092.9	3013.7	2936.4	2938.2	3370.6	2866.5
52.5°	2795.6	2832.0	2972.7	3120.9	3357.6	3476.8	3553.3	3522.5	3374.3	3746.2	3278.4
55°	2916.8	2948.5	3088.3	3343.6	3717.3	4023.9	4230.7	4204.6	3918.6	4169.2	3684.7
57.5°	2802.2	2823.6	3012.8	3347.3	3968.9	4652.9	4851.4	4818.8	4481.4	4492.6	4175.8
60°	2322.2	2355.8	2637.2	3029.5	3871.0	5137.5	5705.9	5656.5	4993.9	4901.7	4491.7
62.5°	1608.4	1630.8	1861.9	2350.2	3407.0	5306.1	6512.9	6539.9	5534.4	5220.4	4585.8
65°	1041.8	1040.0	1172.3	1503.1	2414.5	4795.5	6990.0	7157.8	6056.3	5268.9	4556.9
67°	736.2	733.4	795.8	1019.5	1671.8	3951.2	6981.7	7342.3	6339.6	5282.8	4289.4
67.5°	679.3	676.5	736.2	937.5	1508.7	3674.4	6877.3	7247.2	6439.3	5263.3	4172.0
70°	527.4	520.0	542.4	645.8	878.8	2376.3	5885.8	6657.4	6232.4	4775.0	3331.5
72.5°	381.1	389.5	424.9	530.2	689.6	1278.5	4486.1	5383.5	5205.5	3598.9	2117.2
75°	265.6	273.0	329.9	432.4	632.7	775.3	3033.3	3904.6	3625.9	1986.8	902.1
77.5°	138.9	148.2	210.6	345.7	575.0	600.1	1812.5	2476.0	1921.5	707.3	248.8
80°	64.3	69.0	105.3	245.1	480.9	527.4	1056.8	1377.3	768.8	158.4	85.7
82.5°	28.0	30.8	48.5	140.7	341.1	461.3	654.2	722.2	278.6	51.3	53.1
85°	5.6	6.5	18.6	74.6	164.9	279.6	459.4	428.7	139.8	25.2	41.9
87.5°	0.0	0.0	4.7	21.4	44.7	82.9	194.8	194.8	42.9	13.0	15.8
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°	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6	1988.6
2.5°	1989.6	1956.0	1882.4	1814.4	1765.9	1710.9	1638.2	1605.6	1593.5	1576.7	1551.6
5°	1937.4	1896.4	1770.6	1643.8	1505.0	1399.7	1287.9	1222.6	1173.2	1142.5	1132.2
7.5°	1863.8	1779.9	1610.3	1407.1	1227.3	1070.7	901.1	786.5	712.9	683.1	655.1
10°	1805.1	1696.0	1437.9	1185.4	945.9	716.6	525.6	424.9	348.5	319.6	315.9
12.5°	1728.6	1598.2	1276.7	958.9	657.9	426.8	290.7	252.5	231.1	227.4	224.6
15°	1665.3	1509.6	1123.8	742.7	425.9	266.5	226.4	217.1	211.5	209.7	210.6
17.5°	1622.4	1414.6	967.3	540.5	280.5	218.1	208.7	203.2	200.4	199.4	196.6
20°	1537.6	1334.5	812.6	378.3	219.0	201.3	193.8	189.2	186.4	185.4	184.5
22.5°	1489.1	1232.9	657.9	263.7	194.8	182.6	177.1	173.3	168.7	165.9	164.9
25°	1440.7	1158.3	520.0	205.0	177.1	168.7	160.3	155.6	148.2	144.4	143.5
27.5°	1383.8	1084.7	400.7	178.0	159.4	151.0	142.6	135.1	125.8	122.1	120.2
30°	1351.2	1013.0	301.9	159.4	146.3	135.1	124.9	115.6	105.3	98.8	96.9
32.5°	1334.5	947.7	226.4	145.4	132.3	120.2	107.2	96.0	86.7	81.1	80.1
35°	1314.0	884.4	178.0	132.3	119.3	106.2	93.2	82.0	72.7	68.0	66.2
37.5°	1335.4	847.1	148.2	122.1	109.0	94.1	80.1	69.0	61.5	56.8	55.9
40°	1394.1	816.3	128.6	112.8	98.8	82.9	69.9	58.7	52.2	48.5	46.6
42.5°	1484.5	816.3	116.5	103.4	89.5	72.7	59.6	51.3	44.7	41.0	40.1
45°	1648.5	841.5	106.2	94.1	78.3	62.4	51.3	42.9	36.3	32.6	31.7
47.5°	1878.7	899.3	97.8	85.7	69.9	55.0	44.7	36.3	29.8	26.1	25.2
50°	2188.1	1030.7	89.5	75.5	62.4	47.5	37.3	28.9	23.3	19.6	18.6
52.5°	2573.9	1217.0	81.1	69.9	53.1	40.1	29.8	23.3	17.7	14.9	14.0
55°	2982.0	1445.3	70.8	62.4	45.7	33.5	24.2	17.7	13.0	11.2	10.3
57.5°	3393.0	1621.5	62.4	54.0	37.3	27.0	19.6	14.0	9.3	7.5	6.5
60°	3611.0	1638.2	54.0	44.7	29.8	21.4	14.9	10.3	6.5	4.7	3.7
62.5°	3644.6	1489.1	46.6	36.3	24.2	16.8	10.3	7.5	3.7	1.9	1.9
65°	3472.2	1241.3	40.1	28.9	18.6	12.1	7.5	4.7	1.9	0.9	0.0
67°	3192.6	1040.0	34.5	24.2	14.9	9.3	5.6	2.8	0.9	0.0	0.0
67.5°	3084.5	984.1	32.6	22.4	14.0	8.4	4.7	2.8	0.9	0.0	0.0
70°	2394.0	702.6	24.2	15.8	10.3	6.5	3.7	1.9	0.0	0.0	0.0
72.5°	1466.8	411.0	18.6	11.2	7.5	4.7	2.8	0.9	0.0	0.0	0.0
75°	615.0	141.6	15.8	8.4	5.6	2.8	1.9	0.9	0.0	0.0	0.0
77.5°	160.3	53.1	11.2	5.6	3.7	2.8	1.9	0.9	0.0	0.0	0.0
80°	65.2	24.2	7.5	3.7	3.7	2.8	1.9	0.9	0.0	0.0	0.0
82.5°	42.9	11.2	4.7	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
85°	32.6	6.5	2.8	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	3.7	2.8	1.9	1.9	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)