

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: P484903

Luminaire Tested: **IFLD-S-SA3A-827-U-SL4-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484903  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

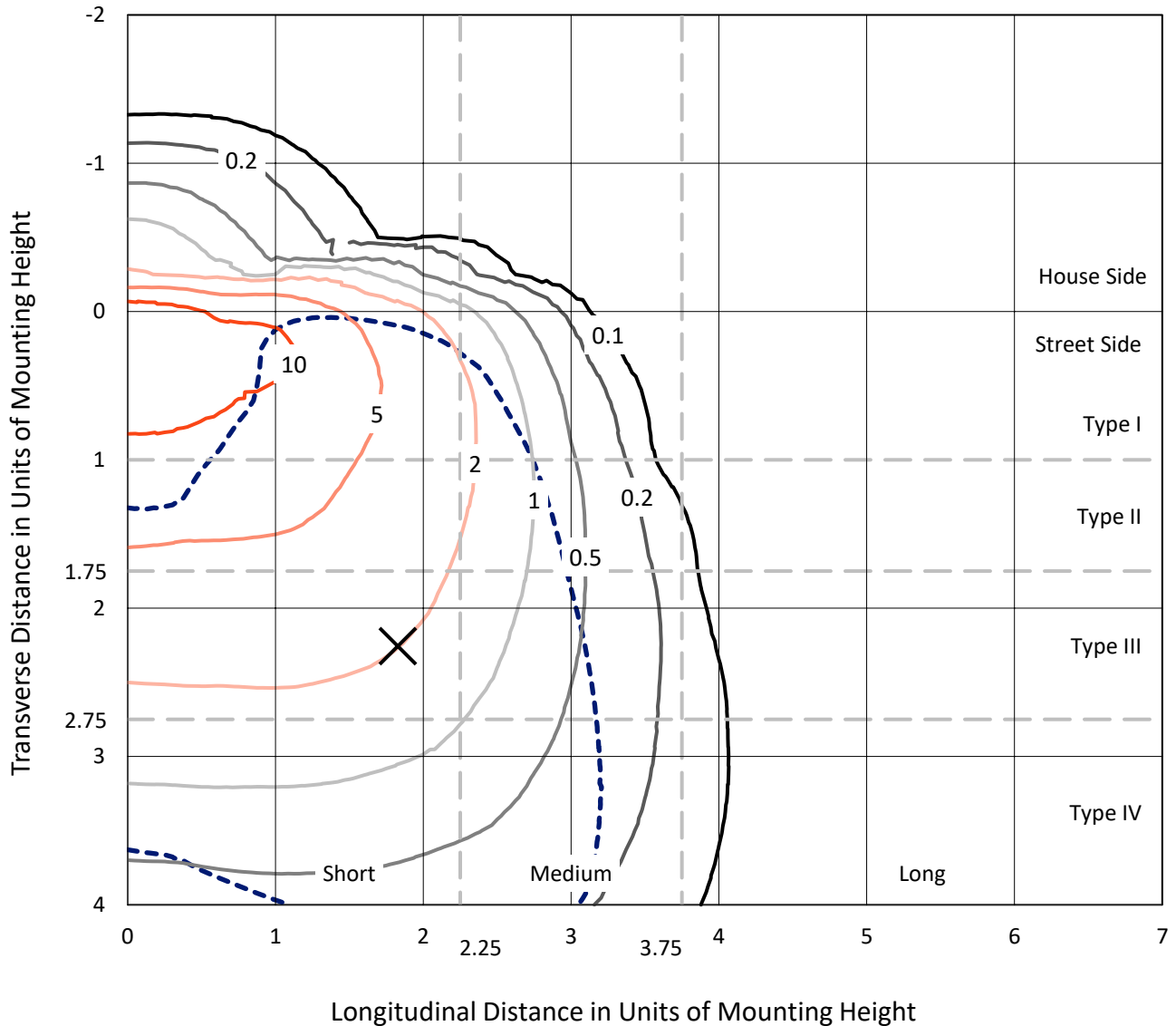
Lumens per Lamp: N/A  
Luminaire Lumens: 8355.3 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

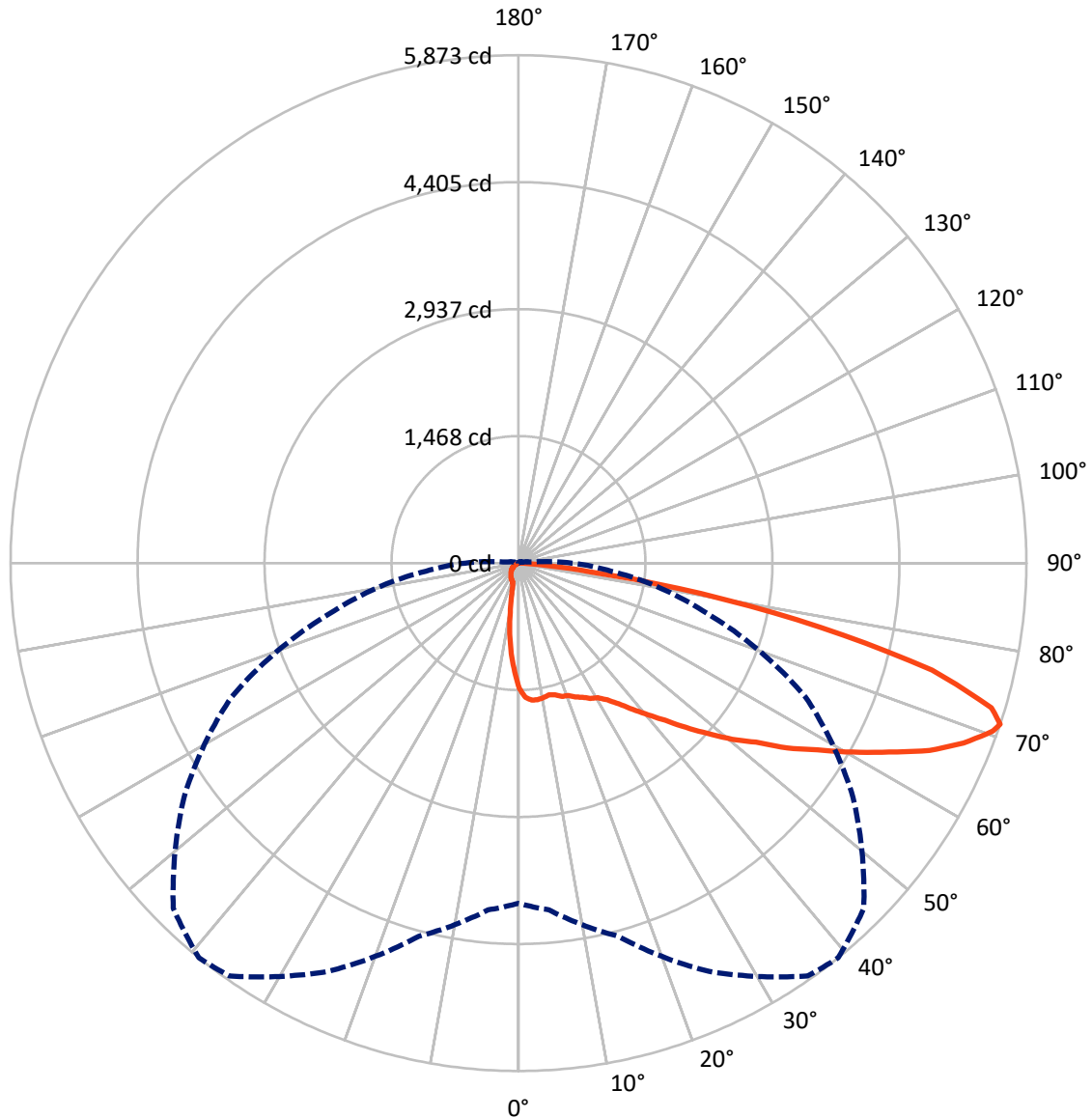
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	629.0	0.0	629.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7726.2	0.0	7726.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	8355.3	0.0	8355.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	1.5
10°-20°	299.3	3.6
20°-30°	480.4	5.7
30°-40°	735.4	8.8
40°-50°	1180.5	14.1
50°-60°	1733.9	20.8
60°-70°	2183.8	26.1
70°-80°	1457.4	17.4
80°-90°	162.9	1.9
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°	8355.3	100.0
0°-180°	8355.3	100.0

**Coefficient of Utilization**



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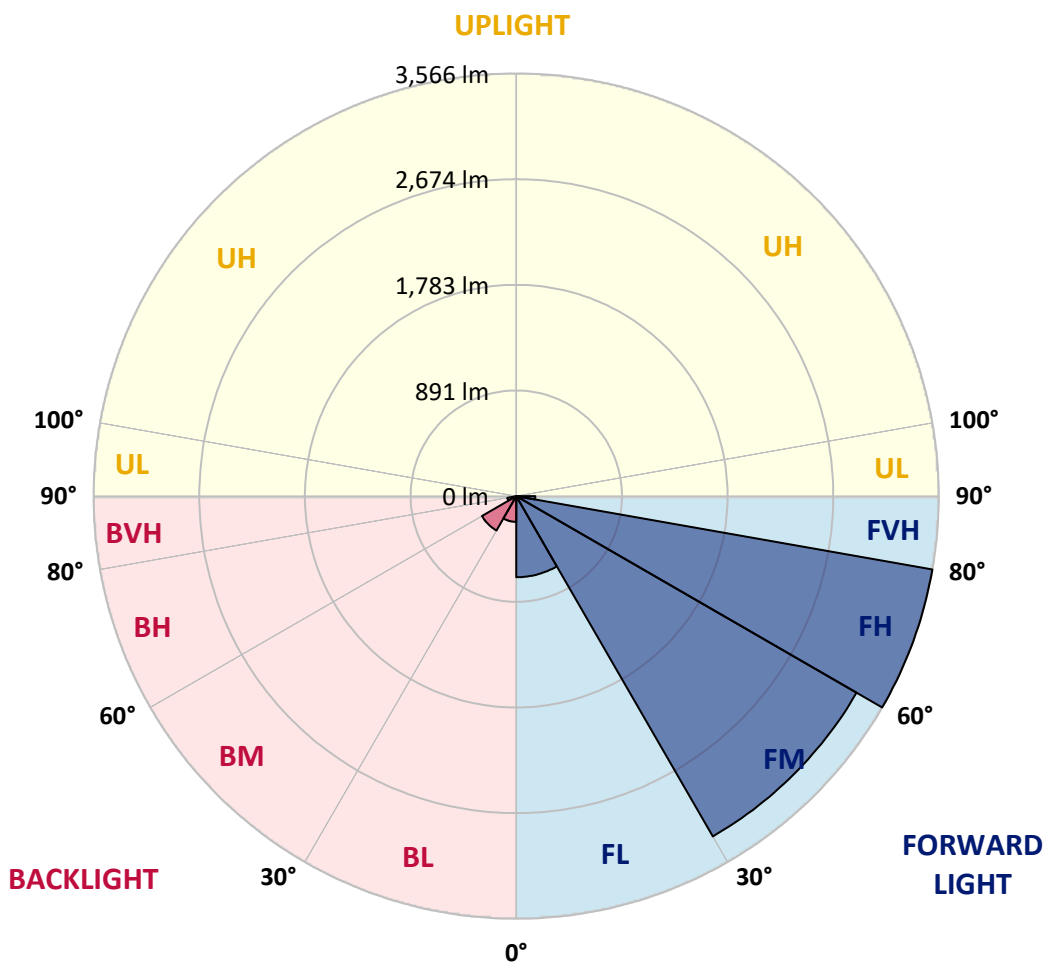
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.1	8.2			
FM (30°-60°)	3315.5	39.7			
FH (60°-80°)	3565.6	42.7			G2/5000
FVH (80°-90°)	161.1	1.9			G2/225
BL (0°-30°)	217.2	2.6	B1/500		
BM (30°-60°)	334.4	4.0	B1/1000		
BH (60°-80°)	75.7	0.9	B0/110		G0/110
BVH (80°-90°)	1.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1567.2	1582.5	1567.2	1560.6	1554.0	1555.1	1537.6	1540.9	1520.0	1492.6	1470.7
5°	1616.5	1637.3	1620.9	1613.2	1612.1	1591.3	1582.5	1561.7	1536.5	1493.7	1467.4
7.5°	1612.1	1607.7	1615.4	1608.8	1594.6	1594.6	1584.7	1555.1	1529.9	1481.7	1436.8
10°	1579.2	1592.4	1585.8	1578.1	1581.4	1582.5	1563.9	1543.1	1535.4	1487.2	1413.7
12.5°	1575.9	1554.0	1578.1	1579.2	1565.0	1563.9	1561.7	1556.2	1532.1	1488.3	1419.2
15°	1565.0	1556.2	1580.3	1581.4	1584.7	1581.4	1584.7	1580.3	1556.2	1531.0	1443.3
17.5°	1573.7	1563.9	1597.9	1614.3	1606.6	1622.0	1616.5	1596.8	1575.9	1546.3	1466.3
20°	1575.9	1590.2	1627.4	1634.0	1658.1	1632.9	1631.8	1611.0	1597.9	1566.1	1480.6
22.5°	1616.5	1623.1	1669.1	1683.3	1684.4	1681.1	1653.7	1629.6	1624.2	1584.7	1483.9
25°	1677.9	1700.9	1721.7	1730.5	1733.7	1718.4	1689.9	1659.2	1646.1	1620.9	1517.9
27.5°	1786.4	1772.1	1790.7	1803.9	1766.6	1772.1	1735.9	1709.6	1691.0	1669.1	1557.3
30°	1882.8	1869.6	1870.7	1868.5	1836.8	1807.2	1797.3	1751.3	1728.3	1737.0	1618.7
32.5°	1969.4	1940.9	1965.0	1954.0	1894.8	1886.1	1878.4	1820.3	1824.7	1865.3	1710.7
35°	2049.4	2039.5	2059.2	2039.5	2000.1	1997.9	1990.2	1939.8	1963.9	2022.0	1868.5
37.5°	2122.8	2126.1	2150.2	2140.3	2143.6	2145.8	2141.4	2087.7	2156.8	2287.2	2052.7
40°	2190.7	2186.4	2245.5	2276.2	2282.8	2306.9	2306.9	2293.8	2400.1	2546.9	2308.0
42.5°	2263.1	2274.0	2350.7	2402.3	2464.7	2485.5	2514.0	2520.6	2685.0	2852.7	2568.8
45°	2381.4	2362.8	2460.3	2582.0	2636.8	2710.2	2754.0	2791.3	2989.7	3219.8	2829.7
47.5°	2531.6	2494.3	2579.8	2756.2	2883.4	2943.6	3022.5	3071.9	3265.8	3503.7	3076.2
50°	2698.2	2659.8	2701.4	2944.7	3092.7	3202.3	3303.1	3365.6	3600.1	3821.5	3256.0
52.5°	2886.7	2851.6	2858.2	3140.9	3359.0	3439.0	3571.6	3664.8	3898.2	4013.3	3319.5
55°	3087.2	3078.4	3057.6	3332.7	3592.4	3772.2	3852.2	3963.9	4204.0	4117.4	3388.6
57.5°	3288.9	3261.5	3291.0	3586.9	3967.2	4074.6	4185.3	4252.2	4373.8	4208.3	3362.3
60°	3478.5	3480.6	3522.3	3863.1	4286.1	4438.5	4538.2	4497.7	4548.1	4247.8	3302.0
62.5°	3638.5	3634.1	3739.3	4173.3	4708.1	4811.1	4885.6	4704.8	4629.2	4286.1	3196.8
65°	3782.0	3831.3	3996.8	4542.6	5104.8	5223.2	5178.2	4901.0	4708.1	4173.3	2900.9
67.5°	3890.5	3963.9	4251.1	4890.0	5468.6	5551.9	5489.5	5050.0	4614.9	3730.5	2362.8
70°	3954.1	4028.6	4433.0	5179.3	5759.1	5819.3	5672.5	4934.9	4071.3	2701.4	1474.0
71°	3934.4	4025.3	4468.1	5210.0	5828.1	5873.0	5645.1	4722.3	3661.5	2262.0	1075.1
72.5°	3755.7	3841.2	4322.3	5188.1	5744.8	5717.4	5431.4	4211.6	2882.3	1442.2	555.6
75°	2759.5	2851.6	3709.7	4487.8	5127.8	4939.3	4395.7	2955.7	1503.6	441.7	162.2
77.5°	1374.3	1389.6	2302.5	3258.2	3761.2	3573.8	2945.8	1648.3	562.2	130.4	81.1
80°	633.4	637.8	863.6	1687.7	2274.0	2140.3	1650.5	813.2	254.3	69.0	63.6
82.5°	431.8	438.4	520.6	699.2	987.4	832.9	668.5	520.6	145.8	41.6	62.5
85°	78.9	72.3	291.5	370.4	381.4	258.6	231.2	450.4	54.8	24.1	54.8
87.5°	0.0	1.1	40.5	151.2	135.9	60.3	78.9	109.6	5.5	7.7	9.9
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°	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1452.1	1440.0	1399.5	1354.6	1314.0	1282.2	1241.7	1223.0	1193.5	1177.0	1175.9
5°	1431.3	1398.4	1328.3	1252.6	1168.3	1098.1	1020.3	976.5	926.1	910.7	907.4
7.5°	1396.2	1349.1	1246.1	1139.8	1010.4	886.6	791.3	689.3	626.9	600.6	590.7
10°	1374.3	1317.3	1177.0	1018.1	837.3	663.0	529.3	420.8	363.8	336.4	329.9
12.5°	1374.3	1312.9	1121.1	901.9	661.9	453.7	327.7	265.2	246.6	240.0	240.0
15°	1371.0	1304.1	1067.4	782.5	489.9	304.7	244.4	231.2	229.0	228.0	226.9
17.5°	1387.4	1288.8	1012.6	654.3	346.3	240.0	224.7	222.5	220.3	220.3	218.1
20°	1399.5	1280.0	946.9	518.4	258.6	222.5	215.9	212.6	211.5	210.4	212.6
22.5°	1389.6	1266.9	865.8	388.0	225.8	211.5	207.1	203.8	201.6	201.6	202.7
25°	1408.3	1254.8	784.7	292.6	211.5	201.6	197.3	195.1	194.0	192.9	190.7
27.5°	1433.5	1260.3	688.2	235.6	199.5	191.8	187.4	185.2	184.1	181.9	184.1
30°	1464.2	1259.2	581.9	206.0	188.5	180.8	176.4	175.3	173.2	172.1	173.2
32.5°	1516.8	1287.7	472.3	190.7	176.4	169.9	165.5	164.4	163.3	162.2	161.1
35°	1629.6	1322.8	369.3	178.6	165.5	157.8	154.5	152.3	151.2	150.1	149.0
37.5°	1768.8	1400.6	281.7	167.7	154.5	146.9	143.6	142.5	138.1	137.0	135.9
40°	1943.1	1483.9	217.0	155.6	144.7	137.0	133.7	130.4	124.9	122.7	120.6
42.5°	2160.1	1565.0	178.6	144.7	133.7	128.2	122.7	117.3	112.9	108.5	106.3
45°	2377.1	1659.2	156.7	134.8	124.9	118.4	114.0	106.3	98.6	92.1	91.0
47.5°	2557.9	1693.2	143.6	123.8	116.2	110.7	104.1	94.2	83.3	76.7	75.6
50°	2692.7	1673.5	130.4	112.9	106.3	100.8	92.1	80.0	69.0	62.5	60.3
52.5°	2719.0	1586.9	118.4	104.1	96.4	89.9	80.0	66.9	54.8	48.2	47.1
55°	2700.3	1443.3	108.5	96.4	87.7	77.8	66.9	53.7	42.7	36.2	35.1
57.5°	2662.0	1273.5	97.5	86.6	76.7	66.9	54.8	43.8	31.8	25.2	25.2
60°	2531.6	1042.2	86.6	75.6	65.8	57.0	44.9	31.8	21.9	16.4	15.3
62.5°	2349.7	801.1	75.6	64.7	57.0	47.1	35.1	23.0	13.2	8.8	8.8
65°	2017.6	561.1	63.6	53.7	47.1	38.4	26.3	14.2	7.7	3.3	3.3
67.5°	1533.2	347.4	52.6	44.9	40.5	30.7	18.6	8.8	3.3	1.1	0.0
70°	880.0	180.8	41.6	36.2	31.8	23.0	13.2	4.4	2.2	0.0	0.0
71°	614.8	133.7	37.3	31.8	28.5	20.8	11.0	3.3	1.1	0.0	0.0
72.5°	308.0	88.8	31.8	26.3	23.0	16.4	8.8	3.3	1.1	0.0	0.0
75°	109.6	57.0	21.9	17.5	16.4	12.1	5.5	2.2	1.1	0.0	0.0
77.5°	75.6	46.0	15.3	11.0	11.0	7.7	3.3	1.1	1.1	0.0	0.0
80°	69.0	25.2	9.9	6.6	5.5	4.4	2.2	1.1	0.0	0.0	0.0
82.5°	69.0	18.6	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
85°	48.2	9.9	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.3	2.2	1.1	1.1	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)