

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: P484942

Luminaire Tested: **IFLD-S-SA3A-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484942  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

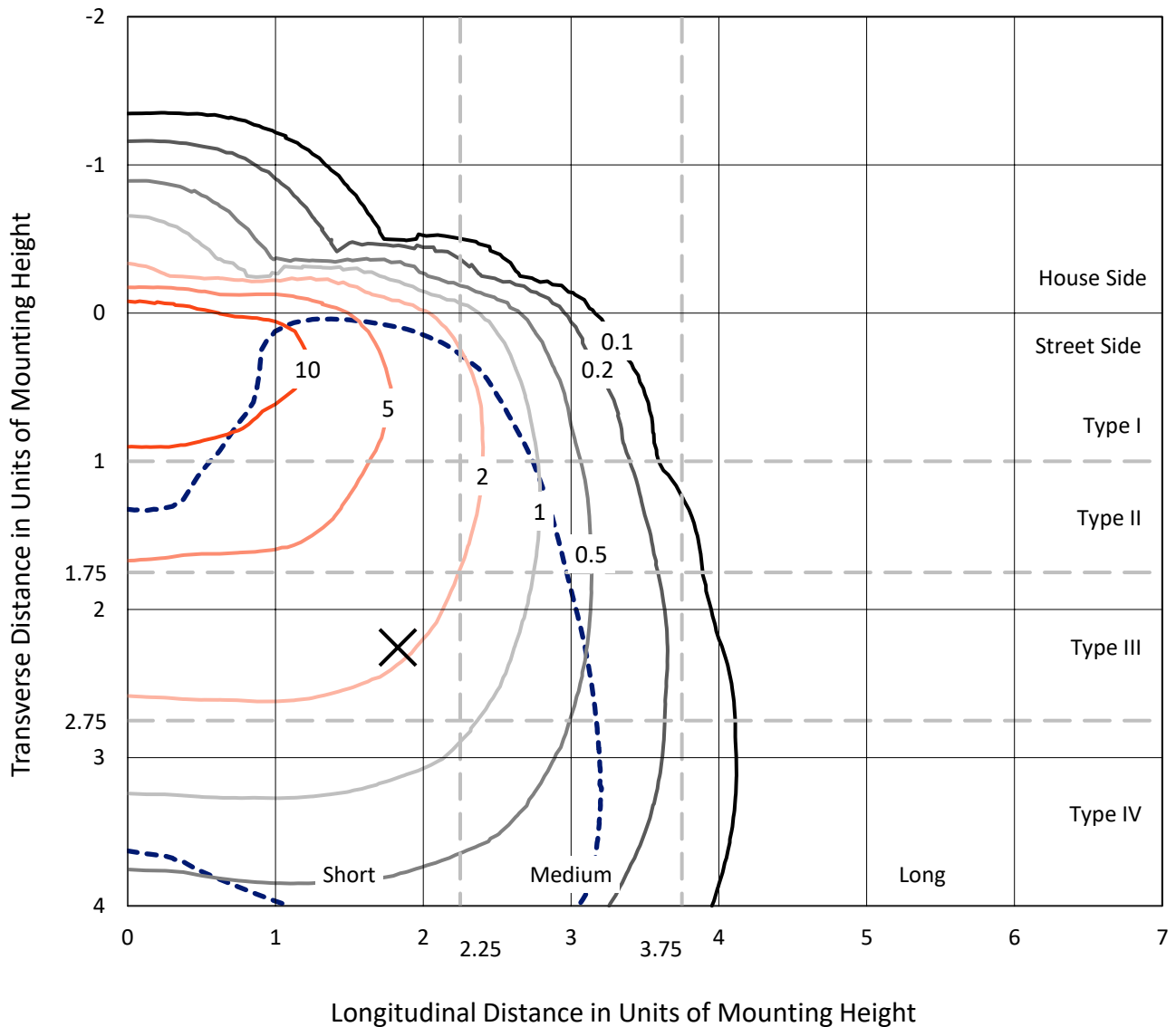
Lumens per Lamp: N/A  
Luminaire Lumens: 9031.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

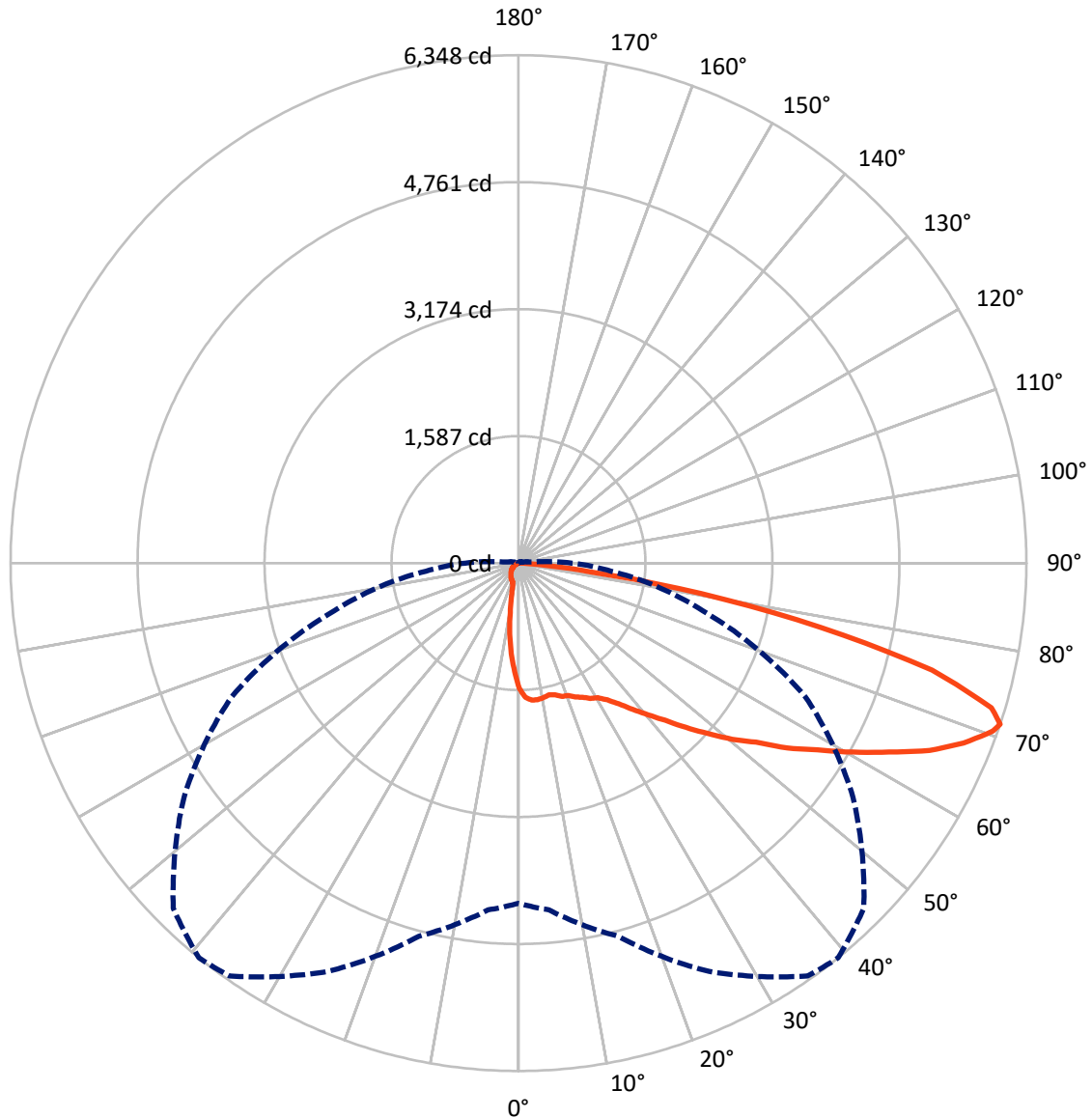
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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	679.9	0.0	679.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	8351.6	0.0	8351.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	9031.6	0.0	9031.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	1.5
10°-20°	323.5	3.6
20°-30°	519.3	5.7
30°-40°	794.9	8.8
40°-50°	1276.0	14.1
50°-60°	1874.3	20.8
60°-70°	2360.6	26.1
70°-80°	1575.4	17.4
80°-90°	176.1	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°	9031.6	100.0
0°-180°	9031.6	100.0



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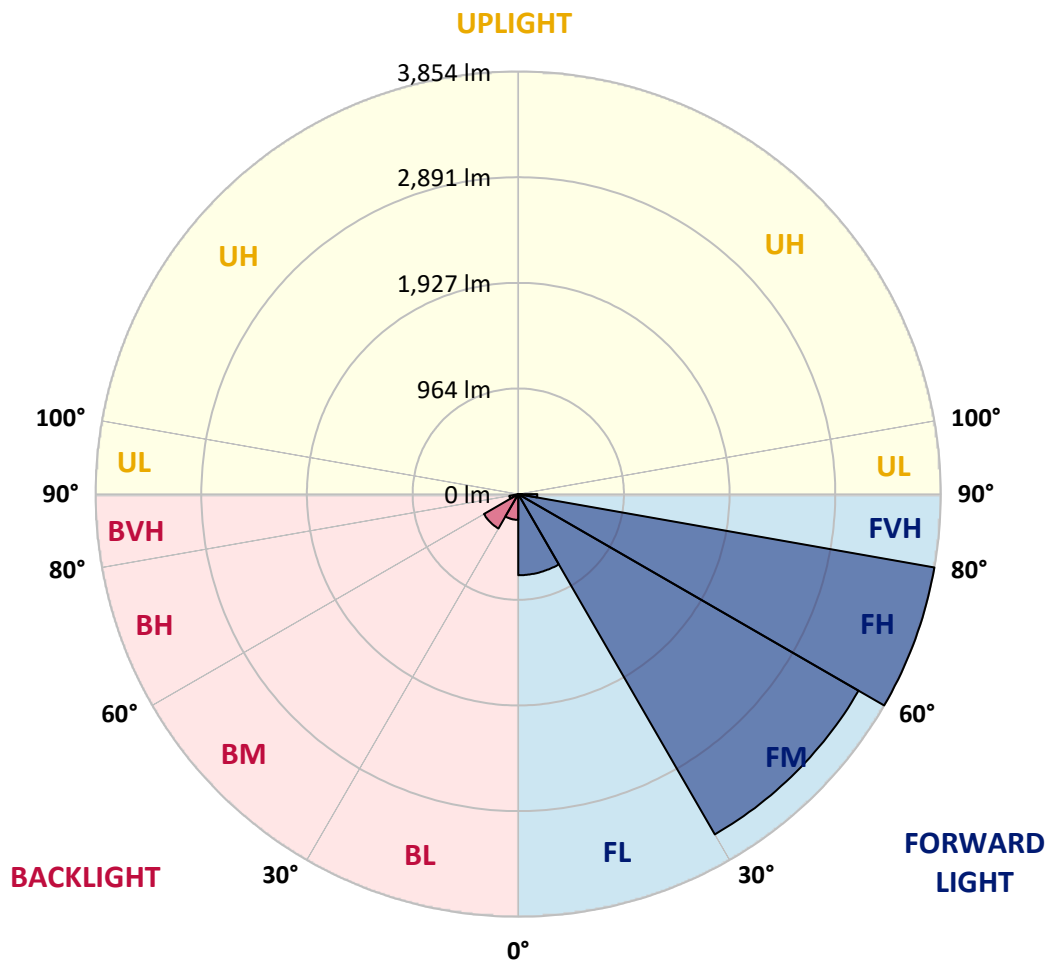
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.5	8.2			
FM (30°-60°)	3583.8	39.7			
FH (60°-80°)	3854.2	42.7			G2/5000
FVH (80°-90°)	174.1	1.9			G2/225
BL (0°-30°)	234.7	2.6	B1/500		
BM (30°-60°)	361.4	4.0	B1/1000		
BH (60°-80°)	81.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.9	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°	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0
2.5°	1694.0	1710.6	1694.0	1686.9	1679.8	1681.0	1662.0	1665.6	1643.1	1613.5	1589.8
5°	1747.3	1769.8	1752.1	1743.8	1742.6	1720.1	1710.6	1688.1	1660.8	1614.6	1586.2
7.5°	1742.6	1737.8	1746.1	1739.0	1723.6	1723.6	1713.0	1681.0	1653.7	1601.6	1553.0
10°	1707.0	1721.3	1714.2	1705.9	1709.4	1710.6	1690.5	1668.0	1659.7	1607.5	1528.2
12.5°	1703.5	1679.8	1705.9	1707.0	1691.6	1690.5	1688.1	1682.2	1656.1	1608.7	1534.1
15°	1691.6	1682.2	1708.2	1709.4	1713.0	1709.4	1713.0	1708.2	1682.2	1654.9	1560.2
17.5°	1701.1	1690.5	1727.2	1745.0	1736.7	1753.2	1747.3	1726.0	1703.5	1671.5	1585.0
20°	1703.5	1718.9	1759.2	1766.3	1792.3	1765.1	1763.9	1741.4	1727.2	1692.8	1600.4
22.5°	1747.3	1754.4	1804.2	1819.6	1820.8	1817.2	1787.6	1761.5	1755.6	1713.0	1604.0
25°	1813.7	1838.5	1861.0	1870.5	1874.1	1857.5	1826.7	1793.5	1779.3	1752.1	1640.7
27.5°	1930.9	1915.5	1935.7	1949.9	1909.6	1915.5	1876.4	1848.0	1827.9	1804.2	1683.4
30°	2035.2	2021.0	2022.2	2019.8	1985.4	1953.4	1942.8	1893.0	1868.2	1877.6	1749.7
32.5°	2128.8	2098.0	2124.0	2112.2	2048.2	2038.7	2030.4	1967.7	1972.4	2016.2	1849.2
35°	2215.3	2204.6	2225.9	2204.6	2161.9	2159.6	2151.3	2096.8	2122.8	2185.6	2019.8
37.5°	2294.6	2298.2	2324.2	2313.6	2317.1	2319.5	2314.8	2256.7	2331.3	2472.3	2218.8
40°	2368.1	2363.3	2427.3	2460.5	2467.6	2493.6	2493.6	2479.4	2594.3	2753.1	2494.8
42.5°	2446.3	2458.1	2541.0	2596.7	2664.2	2686.7	2717.5	2724.6	2902.3	3083.6	2776.8
45°	2574.2	2554.1	2659.5	2791.0	2850.2	2929.6	2977.0	3017.2	3231.7	3480.4	3058.7
47.5°	2736.5	2696.2	2788.6	2979.3	3116.8	3181.9	3267.2	3320.5	3530.2	3787.2	3325.2
50°	2916.5	2875.1	2920.1	3183.1	3343.0	3461.5	3570.5	3638.0	3891.5	4130.8	3519.5
52.5°	3120.3	3082.4	3089.5	3395.1	3630.9	3717.4	3860.7	3961.4	4213.7	4338.1	3588.2
55°	3337.1	3327.6	3305.1	3602.4	3883.2	4077.5	4164.0	4284.8	4544.2	4450.6	3662.9
57.5°	3555.1	3525.4	3557.4	3877.3	4288.3	4404.4	4524.1	4596.3	4727.8	4549.0	3634.4
60°	3760.0	3762.4	3807.4	4175.8	4633.1	4797.7	4905.5	4861.7	4916.2	4591.6	3569.3
62.5°	3933.0	3928.2	4041.9	4511.1	5089.2	5200.5	5281.1	5085.6	5003.9	4633.1	3455.6
65°	4088.1	4141.5	4320.3	4910.3	5518.0	5645.9	5597.4	5297.6	5089.2	4511.1	3135.7
67.5°	4205.4	4284.8	4595.2	5285.8	5911.3	6001.3	5933.8	5458.8	4988.5	4032.5	2554.1
70°	4274.1	4354.7	4791.8	5598.5	6225.2	6290.4	6131.6	5334.4	4400.9	2920.1	1593.3
71°	4252.8	4351.1	4829.7	5631.7	6299.8	6348.4	6102.0	5104.6	3957.8	2445.1	1162.1
72.5°	4059.7	4152.1	4672.2	5608.0	6209.8	6180.2	5871.0	4552.5	3115.6	1559.0	600.6
75°	2982.9	3082.4	4010.0	4851.0	5542.9	5339.1	4751.5	3194.9	1625.3	477.4	175.3
77.5°	1485.5	1502.1	2488.9	3521.9	4065.6	3863.1	3184.3	1781.7	607.7	141.0	87.7
80°	684.7	689.5	933.5	1824.3	2458.1	2313.6	1784.0	879.0	274.8	74.6	68.7
82.5°	466.7	473.9	562.7	755.8	1067.3	900.3	722.6	562.7	157.6	45.0	67.5
85°	85.3	78.2	315.1	400.4	412.2	279.6	250.0	486.9	59.2	26.1	59.2
87.5°	0.0	1.2	43.8	163.5	146.9	65.2	85.3	118.5	5.9	8.3	10.7
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°	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0	1572.0
2.5°	1569.6	1556.6	1512.8	1464.2	1420.4	1386.0	1342.2	1322.0	1290.1	1272.3	1271.1
5°	1547.1	1511.6	1435.8	1354.0	1262.8	1187.0	1102.9	1055.5	1001.0	984.4	980.9
7.5°	1509.2	1458.3	1346.9	1232.0	1092.2	958.4	855.3	745.1	677.6	649.2	638.5
10°	1485.5	1423.9	1272.3	1100.5	905.1	716.7	572.2	454.9	393.3	363.7	356.6
12.5°	1485.5	1419.2	1211.9	974.9	715.5	490.4	354.2	286.7	266.5	259.4	259.4
15°	1482.0	1409.7	1153.8	845.8	529.5	329.3	264.2	250.0	247.6	246.4	245.2
17.5°	1499.7	1393.1	1094.6	707.2	374.3	259.4	242.8	240.5	238.1	238.1	235.7
20°	1512.8	1383.6	1023.5	560.3	279.6	240.5	233.4	229.8	228.6	227.4	229.8
22.5°	1502.1	1369.4	935.9	419.4	244.0	228.6	223.9	220.3	218.0	218.0	219.2
25°	1522.2	1356.4	848.2	316.3	228.6	218.0	213.2	210.9	209.7	208.5	206.1
27.5°	1549.5	1362.3	743.9	254.7	215.6	207.3	202.6	200.2	199.0	196.6	199.0
30°	1582.7	1361.1	629.0	222.7	203.8	195.5	190.7	189.5	187.2	186.0	187.2
32.5°	1639.5	1391.9	510.6	206.1	190.7	183.6	178.9	177.7	176.5	175.3	174.1
35°	1761.5	1429.8	399.2	193.1	178.9	170.6	167.0	164.7	163.5	162.3	161.1
37.5°	1912.0	1514.0	304.4	181.2	167.0	158.7	155.2	154.0	149.3	148.1	146.9
40°	2100.3	1604.0	234.6	168.2	156.4	148.1	144.5	141.0	135.0	132.7	130.3
42.5°	2334.9	1691.6	193.1	156.4	144.5	138.6	132.7	126.8	122.0	117.3	114.9
45°	2569.5	1793.5	169.4	145.7	135.0	127.9	123.2	114.9	106.6	99.5	98.3
47.5°	2764.9	1830.2	155.2	133.9	125.6	119.6	112.5	101.9	90.0	82.9	81.7
50°	2910.6	1808.9	141.0	122.0	114.9	109.0	99.5	86.5	74.6	67.5	65.2
52.5°	2939.1	1715.3	127.9	112.5	104.2	97.1	86.5	72.3	59.2	52.1	50.9
55°	2918.9	1560.2	117.3	104.2	94.8	84.1	72.3	58.0	46.2	39.1	37.9
57.5°	2877.5	1376.5	105.4	93.6	82.9	72.3	59.2	47.4	34.4	27.2	27.2
60°	2736.5	1126.6	93.6	81.7	71.1	61.6	48.6	34.4	23.7	17.8	16.6
62.5°	2539.8	866.0	81.7	69.9	61.6	50.9	37.9	24.9	14.2	9.5	9.5
65°	2180.9	606.5	68.7	58.0	50.9	41.5	28.4	15.4	8.3	3.6	3.6
67.5°	1657.3	375.5	56.9	48.6	43.8	33.2	20.1	9.5	3.6	1.2	0.0
70°	951.3	195.5	45.0	39.1	34.4	24.9	14.2	4.7	2.4	0.0	0.0
71°	664.6	144.5	40.3	34.4	30.8	22.5	11.8	3.6	1.2	0.0	0.0
72.5°	332.9	96.0	34.4	28.4	24.9	17.8	9.5	3.6	1.2	0.0	0.0
75°	118.5	61.6	23.7	19.0	17.8	13.0	5.9	2.4	1.2	0.0	0.0
77.5°	81.7	49.8	16.6	11.8	11.8	8.3	3.6	1.2	1.2	0.0	0.0
80°	74.6	27.2	10.7	7.1	5.9	4.7	2.4	1.2	0.0	0.0	0.0
82.5°	74.6	20.1	5.9	4.7	3.6	2.4	1.2	0.0	0.0	0.0	0.0
85°	52.1	10.7	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	3.6	2.4	1.2	1.2	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)