

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: P483403

Luminaire Tested: **IFLD-M-SA4B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483403  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

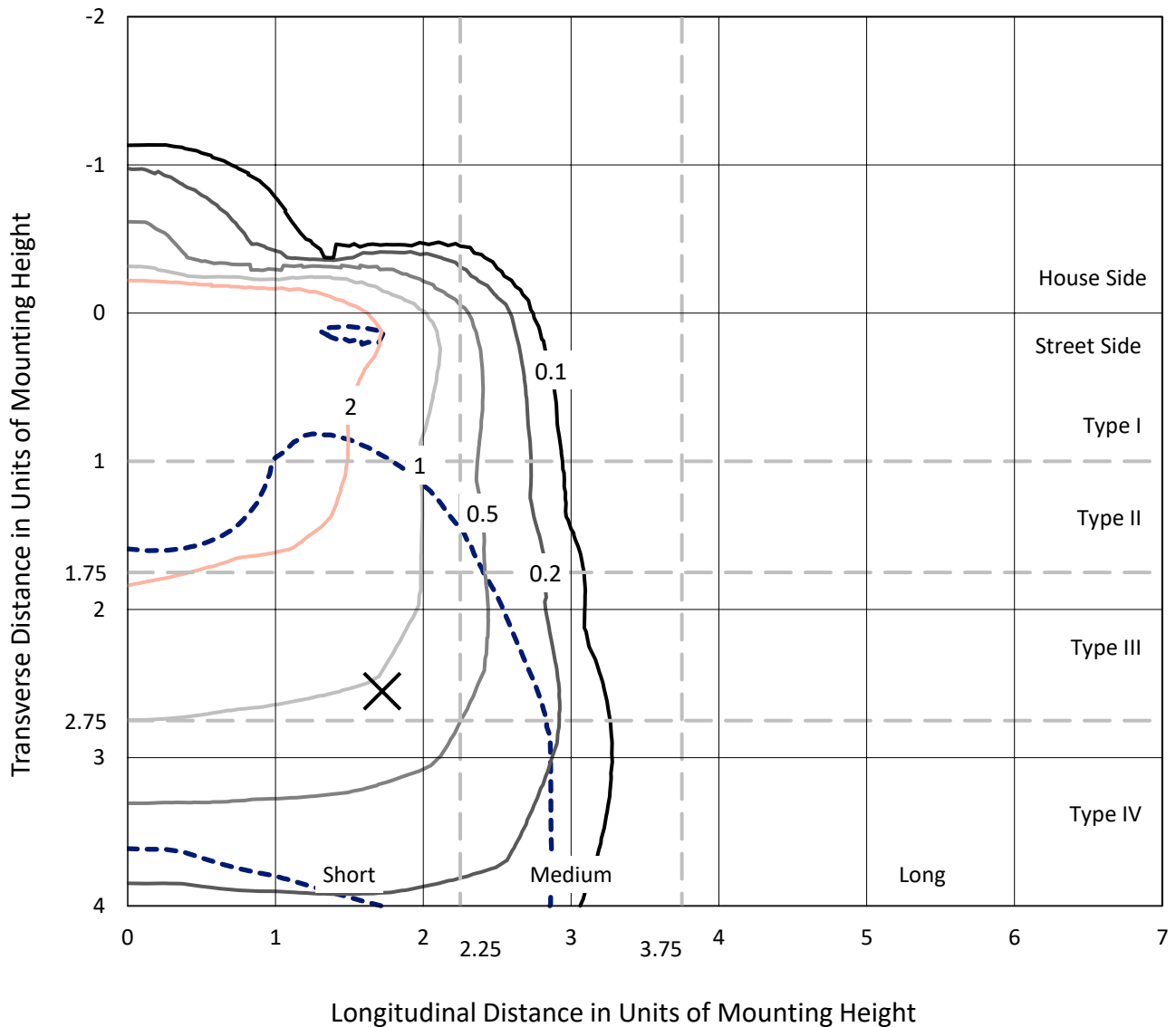
Lumens per Lamp: N/A  
Luminaire Lumens: 13122.8 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1  
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

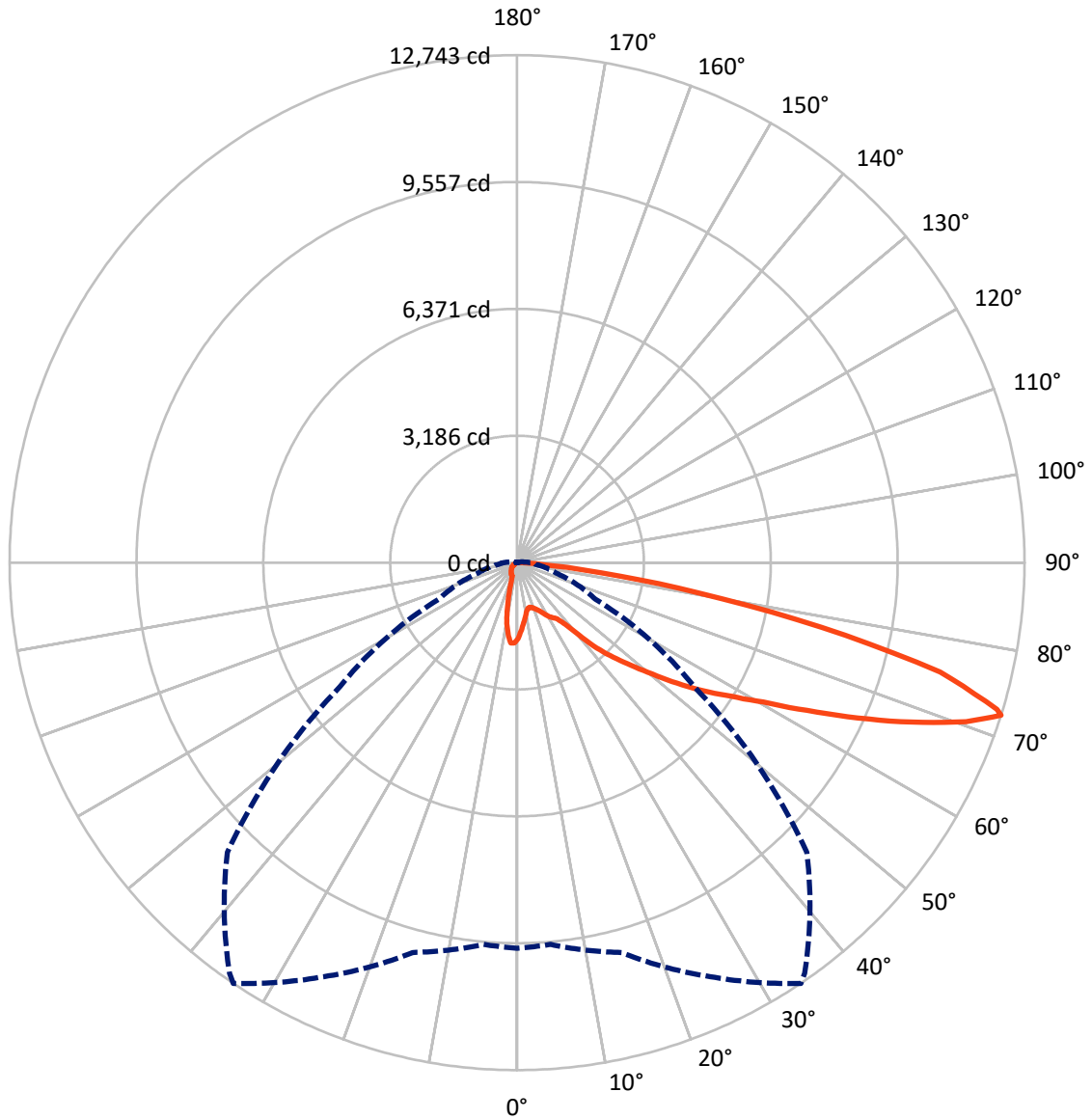
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1343.5	0.0	1343.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	11779.3	0.0	11779.3
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	13122.8	0.0	13122.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	1.3
10°-20°	377.3	2.9
20°-30°	569.5	4.3
30°-40°	924.2	7.0
40°-50°	1738.0	13.2
50°-60°	2841.6	21.7
60°-70°	3777.5	28.8
70°-80°	2529.8	19.3
80°-90°	198.3	1.5
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°	13122.8	100.0
0°-180°	13122.8	100.0



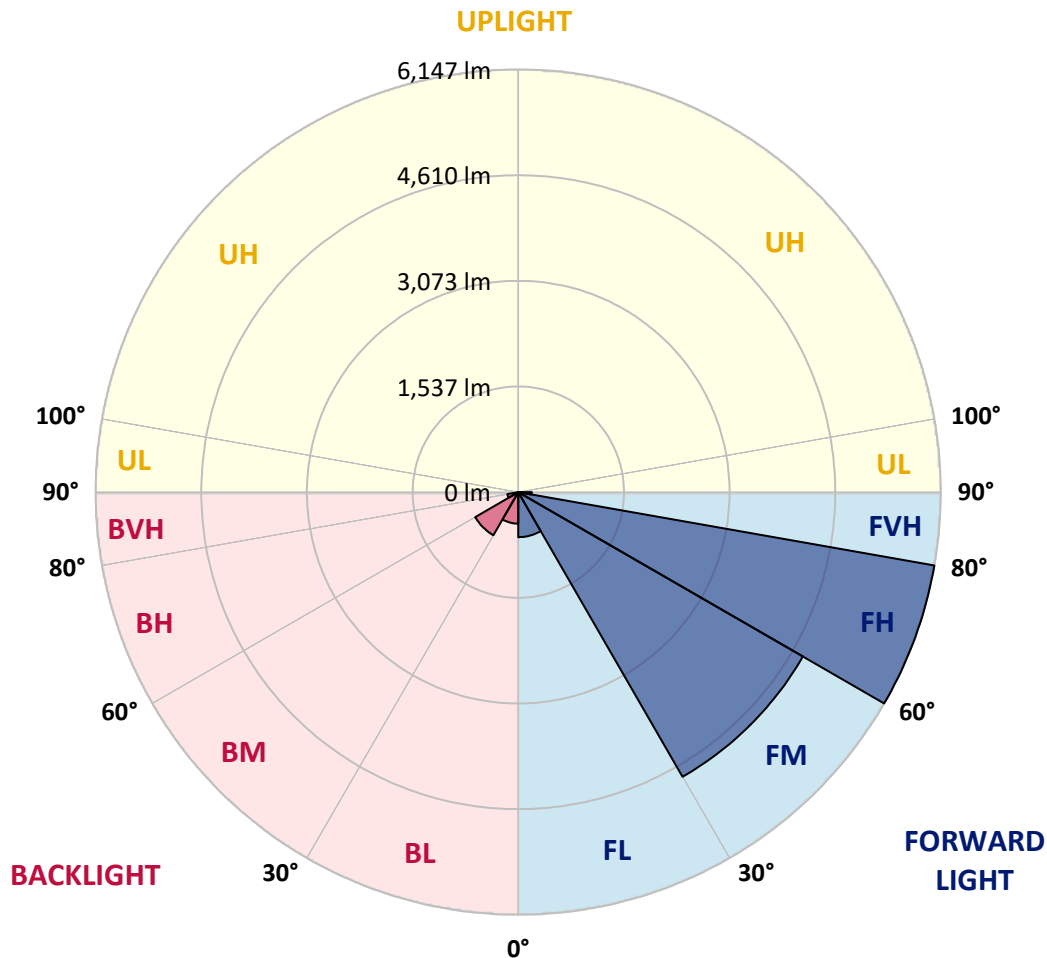
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.1	5.0			
FM (30°-60°)	4780.6	36.4			
FH (60°-80°)	6146.6	46.8			G3/7500
FVH (80°-90°)	197.0	1.5			G2/225
BL (0°-30°)	458.4	3.5	B1/500		
BM (30°-60°)	723.2	5.5	B1/1000		
BH (60°-80°)	160.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9
2.5°	1697.9	1694.1	1705.5	1724.5	1743.4	1735.9	1771.9	1809.8	1836.4	1872.4	1916.1
5°	1483.5	1493.0	1504.4	1542.3	1567.0	1572.7	1639.1	1688.4	1770.0	1853.5	1931.3
7.5°	1288.1	1299.5	1322.3	1364.0	1415.2	1428.5	1494.9	1593.6	1699.8	1809.8	1936.9
10°	1145.9	1157.2	1181.9	1208.5	1276.8	1276.8	1367.8	1504.4	1642.9	1771.9	1938.8
12.5°	1115.5	1121.2	1119.3	1140.2	1183.8	1193.3	1282.4	1432.3	1593.6	1758.6	1969.2
15°	1151.5	1155.3	1136.4	1125.0	1162.9	1172.4	1255.9	1388.7	1561.3	1766.2	2018.5
17.5°	1223.6	1210.4	1172.4	1155.3	1187.6	1193.3	1271.1	1386.8	1557.5	1787.1	2075.4
20°	1265.4	1280.5	1214.1	1181.9	1227.4	1235.0	1318.5	1417.1	1576.5	1823.1	2155.1
22.5°	1339.4	1346.9	1257.8	1236.9	1280.5	1280.5	1375.4	1477.8	1622.0	1881.9	2250.0
25°	1443.7	1434.2	1329.9	1309.0	1350.7	1367.8	1462.7	1574.6	1692.2	1936.9	2337.2
27.5°	1525.3	1531.0	1445.6	1390.6	1460.8	1472.2	1574.6	1678.9	1745.3	1982.5	2443.5
30°	1646.7	1635.3	1544.2	1481.6	1568.9	1570.8	1669.5	1777.6	1847.8	2064.0	2602.8
32.5°	1790.9	1768.1	1663.8	1574.6	1644.8	1661.9	1762.4	1919.9	2007.1	2217.7	2849.5
35°	2096.3	2041.3	1870.5	1732.1	1737.7	1745.3	1900.9	2126.7	2227.2	2413.1	3179.5
37.5°	2542.1	2519.4	2325.8	2062.2	1961.6	1938.8	2113.4	2399.8	2525.0	2671.1	3608.3
40°	2984.1	2951.9	2771.7	2572.5	2390.4	2344.8	2432.1	2762.2	2876.0	3029.7	4048.4
42.5°	3475.5	3418.6	3206.1	3044.9	2931.0	2881.7	2847.6	3217.5	3346.5	3450.8	4479.1
45°	3972.5	3879.6	3572.2	3448.9	3388.2	3361.7	3357.9	3790.4	3868.2	3889.1	4957.1
47.5°	4408.9	4308.3	4029.4	3891.0	3845.4	3837.8	4050.3	4450.6	4389.9	4334.9	5490.2
50°	4744.7	4680.2	4479.1	4429.7	4395.6	4382.3	4879.4	5129.8	4849.0	4752.2	5958.8
52.5°	5264.5	5120.3	4892.6	4909.7	5029.2	5031.1	5719.8	5774.8	5230.3	5038.7	6400.8
55°	5679.9	5585.1	5399.2	5374.5	5689.4	5723.6	6472.9	6264.2	5442.8	5311.9	6564.0
57.5°	6169.4	6125.7	5991.1	5994.8	6324.9	6397.0	7142.6	6677.8	5619.2	5488.3	6588.6
60°	6877.0	6751.8	6681.6	6713.9	7102.8	7173.0	7791.4	6975.7	5704.6	5604.0	6527.9
62.5°	7658.6	7512.5	7436.6	7601.7	8168.9	8180.3	8284.7	7239.3	5651.5	5634.4	6137.1
65°	8599.6	8455.4	8394.7	8726.7	9400.2	9358.4	8977.1	7351.3	5482.6	5329.0	5110.8
67.5°	9536.7	9449.5	9324.3	9853.6	10692.1	10692.1	9696.1	7309.5	5040.6	4278.0	3342.7
70°	9980.7	10041.4	10240.6	11071.5	11961.2	11870.2	10405.6	6829.6	3752.5	2297.4	1314.7
72°	9684.7	9622.1	10136.2	11469.9	12742.8	12593.0	10286.1	5429.5	2168.4	1007.4	457.2
72.5°	9176.3	9235.1	9942.7	11414.9	12596.8	12720.1	9993.9	5008.4	1783.3	802.5	345.3
75°	5626.8	5727.4	7421.5	9692.3	10976.6	10838.2	7730.7	2386.6	684.9	341.5	123.3
77.5°	2054.6	2138.0	3600.7	6099.2	7806.6	7719.3	4473.4	848.0	371.8	254.2	62.6
80°	535.0	578.6	1223.6	2813.4	4591.0	4596.7	1872.4	339.6	252.3	208.7	37.9
82.5°	106.2	117.6	375.6	1094.6	2145.6	2117.2	591.9	182.1	189.7	170.7	26.6
85°	13.3	17.1	79.7	371.8	694.3	622.3	146.1	91.1	140.4	132.8	17.1
87.5°	1.9	1.9	19.0	85.4	146.1	142.3	30.4	28.5	62.6	81.6	9.5
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°	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9	1919.9
2.5°	1940.7	1948.3	1974.9	1997.7	2024.2	2031.8	2020.4	2039.4	2012.8	2028.0	2031.8
5°	1944.5	1988.2	2037.5	2069.7	2062.2	2043.2	2028.0	1976.8	1940.7	1927.5	1955.9
7.5°	1971.1	2020.4	2073.5	2073.5	2031.8	1933.1	1838.3	1747.2	1671.3	1633.4	1665.7
10°	2005.2	2056.5	2111.5	2039.4	1883.8	1703.6	1568.9	1398.2	1282.4	1221.7	1227.4
12.5°	2050.8	2122.9	2141.8	1974.9	1716.9	1449.4	1204.7	967.5	857.5	770.2	772.1
15°	2109.6	2179.8	2122.9	1834.5	1504.4	1109.8	815.8	590.0	502.7	457.2	457.2
17.5°	2187.4	2240.5	2117.2	1705.5	1217.9	758.8	500.8	398.4	379.4	371.8	371.8
20°	2278.4	2318.3	2062.2	1504.4	904.9	487.6	368.0	356.7	358.6	354.8	354.8
22.5°	2380.9	2394.1	1999.5	1271.1	612.8	360.4	343.4	345.3	347.2	343.4	345.3
25°	2489.0	2453.0	1908.5	997.9	407.9	328.2	332.0	335.8	337.7	339.6	339.6
27.5°	2610.4	2538.3	1781.4	730.4	318.7	309.2	320.6	332.0	333.9	333.9	332.0
30°	2788.7	2669.2	1658.1	495.1	280.8	288.4	307.3	320.6	330.1	330.1	328.2
32.5°	3014.5	2805.8	1485.4	337.7	259.9	263.7	278.9	305.4	326.3	328.2	322.5
35°	3327.5	2970.9	1305.2	269.4	244.7	246.6	256.1	277.0	313.0	324.4	322.5
37.5°	3657.6	3158.7	1081.3	242.8	233.3	231.4	237.1	254.2	286.5	314.9	316.8
40°	4008.6	3356.0	846.1	229.5	223.9	220.1	222.0	229.5	254.2	290.3	297.8
42.5°	4338.7	3534.3	635.5	216.3	214.4	210.6	210.6	212.5	225.8	250.4	254.2
45°	4695.3	3680.4	483.8	206.8	201.1	203.0	195.4	191.6	201.1	203.0	201.1
47.5°	5029.2	3826.5	387.0	195.4	189.7	189.7	180.2	172.6	172.6	155.6	153.7
50°	5342.2	3906.1	309.2	180.2	178.3	176.4	163.2	149.9	138.5	117.6	113.8
52.5°	5602.1	3902.3	239.0	161.3	166.9	161.3	140.4	121.4	104.3	85.4	81.6
55°	5679.9	3720.2	180.2	132.8	142.3	134.7	111.9	94.9	75.9	60.7	58.8
57.5°	5613.5	3443.2	136.6	102.4	110.0	102.4	85.4	70.2	53.1	41.7	37.9
60°	5391.6	3118.8	106.2	79.7	83.5	77.8	64.5	53.1	37.9	26.6	22.8
62.5°	4970.4	2712.9	81.6	62.6	60.7	60.7	49.3	39.8	26.6	15.2	13.3
65°	4078.8	2115.3	62.6	43.6	43.6	43.6	37.9	28.5	17.1	7.6	3.8
67.5°	2561.1	1231.2	51.2	34.1	32.3	32.3	26.6	19.0	9.5	1.9	0.0
70°	963.7	451.5	39.8	26.6	24.7	24.7	19.0	11.4	5.7	0.0	0.0
72°	332.0	172.6	32.3	19.0	19.0	17.1	13.3	9.5	3.8	0.0	0.0
72.5°	273.2	138.5	30.4	19.0	17.1	17.1	13.3	9.5	3.8	0.0	0.0
75°	98.6	56.9	20.9	13.3	11.4	11.4	9.5	5.7	1.9	0.0	0.0
77.5°	49.3	36.0	17.1	11.4	9.5	5.7	5.7	3.8	1.9	0.0	0.0
80°	30.4	22.8	9.5	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0
82.5°	20.9	13.3	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.3	5.7	3.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	3.8	1.9	0.0	0.0	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)