

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: P483754

Luminaire Tested: **IFLD-M-SA4B-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483754  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

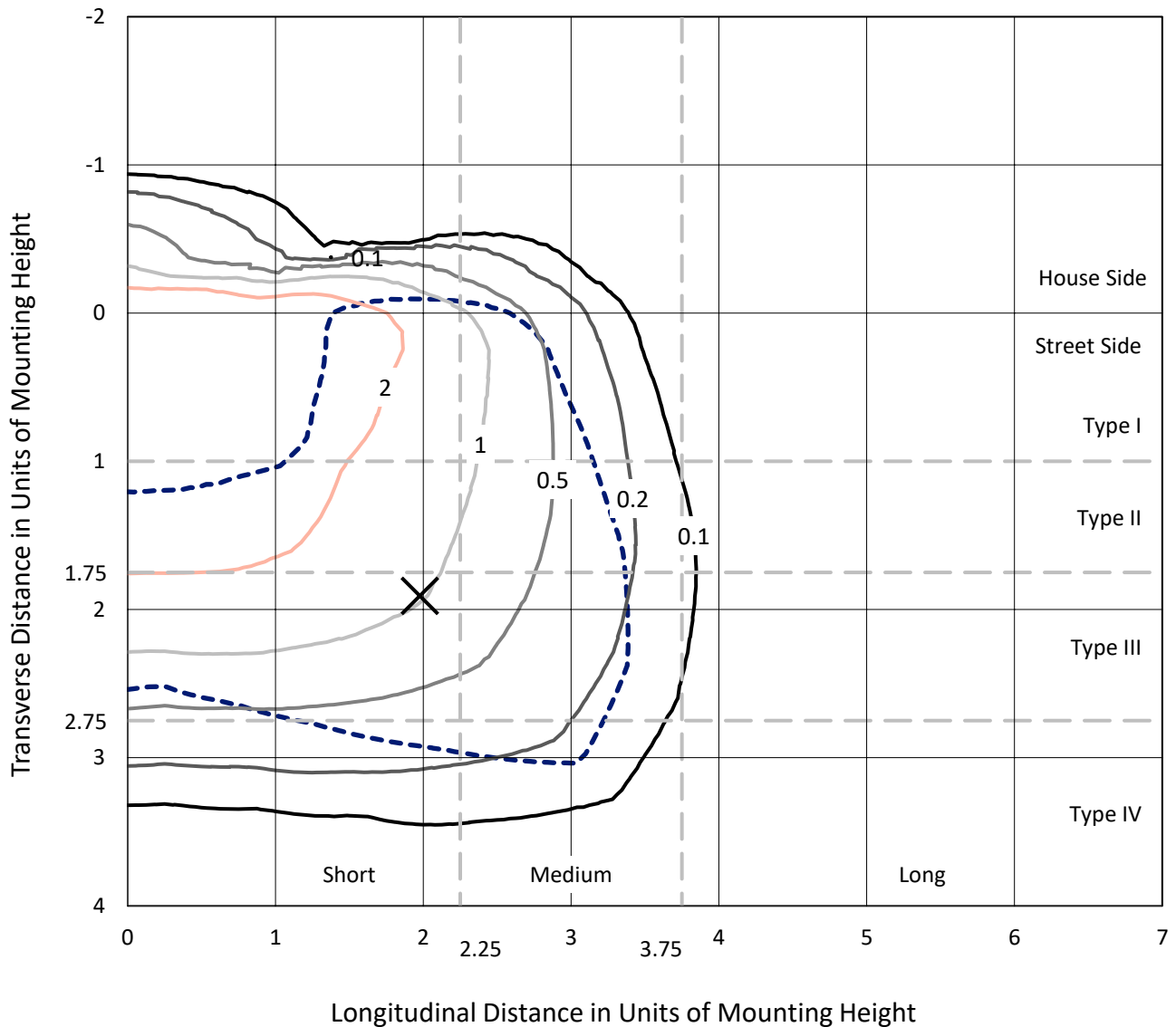
Lumens per Lamp: N/A  
Luminaire Lumens: 12387.7 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

REPORT NUMBER: P483754  
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

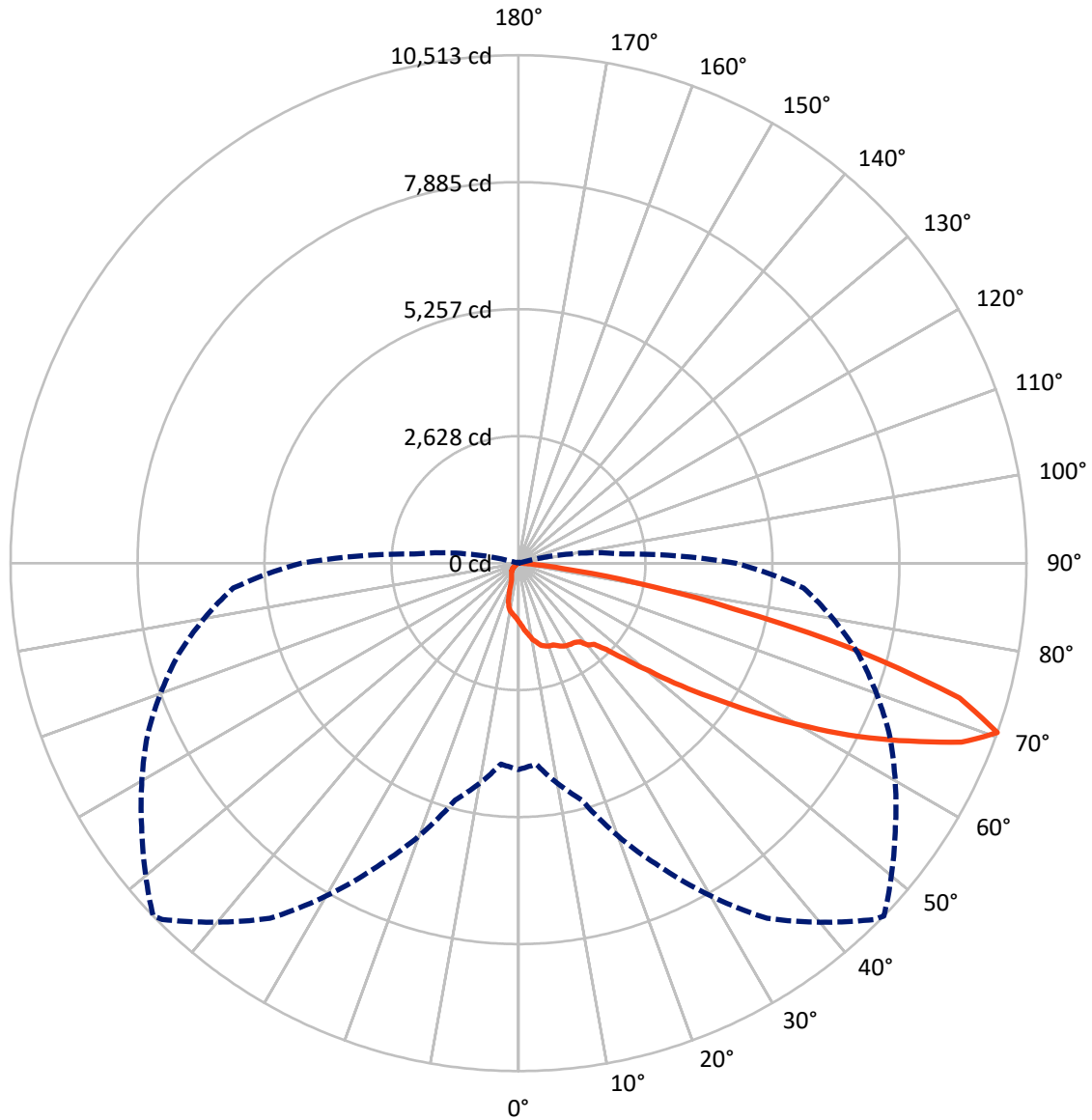
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483754  
CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483754  
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.6	0.0	1232.6
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	11155.1	0.0	11155.1
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	12387.7	0.0	12387.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.3	1.0
10°-20°	366.2	3.0
20°-30°	586.6	4.7
30°-40°	837.2	6.8
40°-50°	1445.7	11.7
50°-60°	2767.9	22.3
60°-70°	4098.8	33.1
70°-80°	2030.1	16.4
80°-90°	134.1	1.1
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°	12387.7	100.0
0°-180°	12387.7	100.0

**Coefficient of Utilization**



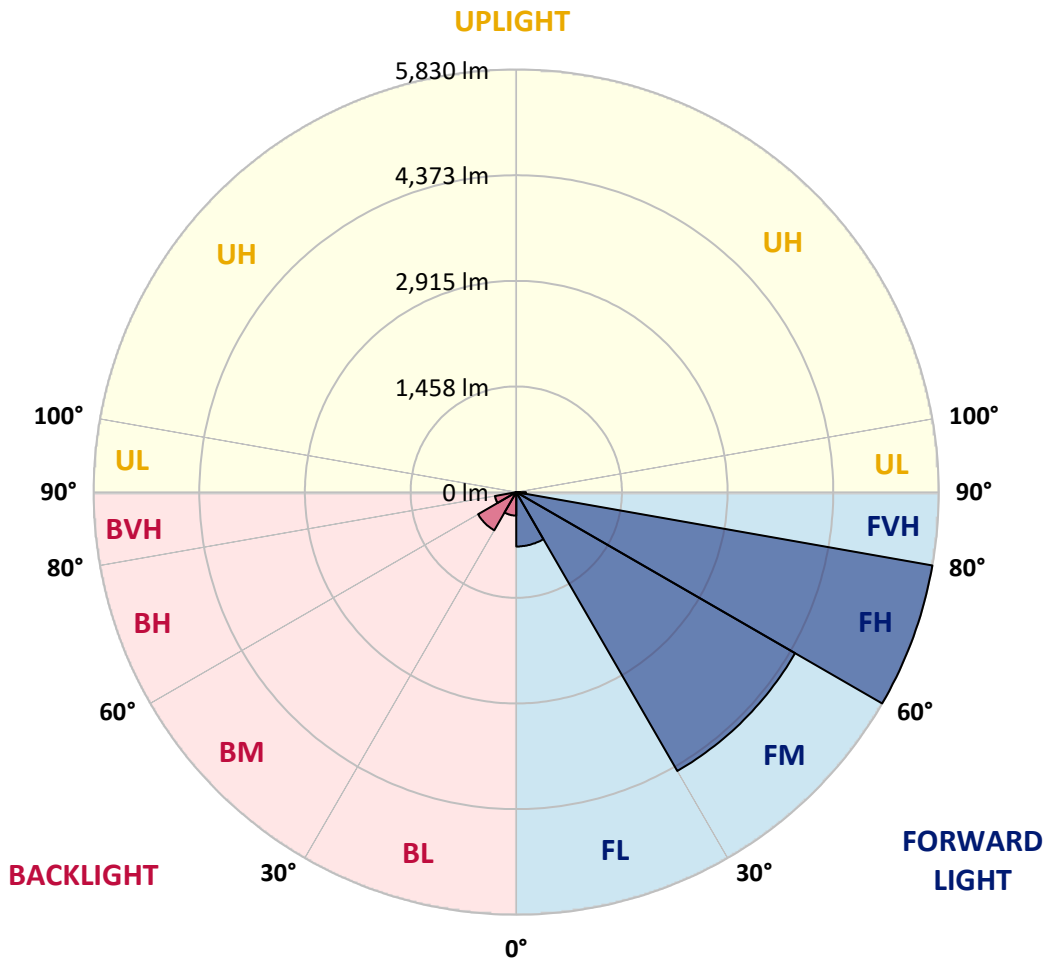
REPORT NUMBER: P483754  
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.2	6.1			
FM (30°-60°)	4442.2	35.9			
FH (60°-80°)	5830.3	47.1			G3/7500
FVH (80°-90°)	132.4	1.1			G2/225
BL (0°-30°)	323.8	2.6	B1/500		
BM (30°-60°)	608.5	4.9	B1/1000		
BH (60°-80°)	298.5	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	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





REPORT NUMBER: P483754

CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1357.0	1348.0	1333.8	1328.4	1314.2	1307.0	1296.3	1291.0	1271.4	1251.8	1239.3
5°	1522.8	1501.4	1508.5	1487.1	1440.8	1403.3	1401.5	1360.5	1315.9	1280.3	1232.1
7.5°	1690.4	1672.6	1645.8	1615.5	1563.8	1508.5	1492.5	1453.2	1390.8	1328.4	1264.2
10°	1817.0	1804.5	1781.3	1738.5	1667.2	1604.8	1606.6	1540.6	1474.6	1403.3	1315.9
12.5°	1895.5	1900.8	1866.9	1824.1	1761.7	1683.3	1681.5	1636.9	1562.0	1487.1	1383.7
15°	1973.9	1993.5	1941.8	1891.9	1811.7	1754.6	1765.3	1711.8	1638.7	1553.1	1439.0
17.5°	1986.4	1991.7	1981.0	1907.9	1849.1	1801.0	1802.7	1767.1	1711.8	1619.1	1521.0
20°	1965.0	1961.4	1949.0	1895.5	1856.2	1827.7	1829.5	1820.6	1790.3	1715.4	1581.6
22.5°	1902.6	1902.6	1886.5	1850.9	1833.0	1859.8	1838.4	1872.3	1840.2	1795.6	1685.0
25°	1852.7	1872.3	1863.4	1840.2	1847.3	1883.0	1893.7	1925.8	1920.4	1865.1	1756.4
27.5°	1906.2	1883.0	1888.3	1861.6	1888.3	1941.8	1947.2	1970.3	1968.6	1924.0	1820.6
30°	1941.8	1963.2	1922.2	1863.4	1891.9	1982.8	1979.3	2009.6	2023.8	1970.3	1881.2
32.5°	2055.9	2038.1	2004.2	1925.8	1929.3	1981.0	1997.1	2036.3	2045.2	2013.1	1940.0
35°	2289.5	2262.8	2114.8	1997.1	1979.3	2004.2	2014.9	2091.6	2107.6	2072.0	2002.4
37.5°	2649.7	2589.1	2410.8	2150.4	2070.2	2064.9	2064.9	2166.5	2227.1	2145.1	2095.2
40°	3165.0	3079.5	2886.9	2434.0	2189.7	2211.1	2232.5	2287.7	2280.6	2227.1	2216.4
42.5°	3821.2	3755.3	3546.6	2910.1	2417.9	2310.9	2293.1	2368.0	2480.3	2458.9	2451.8
45°	4368.6	4372.2	4238.5	3562.7	2812.0	2540.9	2553.4	2610.5	2799.5	2783.5	2781.7
47.5°	4768.1	4718.1	4698.5	4192.1	3386.1	2977.8	2960.0	2999.2	3245.3	3346.9	3393.3
50°	5131.8	5097.9	5051.6	4803.7	4076.2	3525.2	3507.4	3511.0	3887.2	4029.9	4144.0
52.5°	5583.0	5625.7	5472.4	5320.8	4969.6	4236.7	4217.1	4147.5	4614.7	4810.9	4946.4
55°	6139.3	6059.0	5886.1	5964.5	5823.7	5005.2	4969.6	4887.5	5443.9	5525.9	5668.5
57.5°	6262.3	6201.7	6380.0	6658.2	6793.7	5907.5	5893.2	5745.2	6141.1	6066.2	6469.2
60°	6569.0	6585.1	6832.9	7385.7	7621.1	6948.8	6879.3	6618.9	6816.9	6831.1	7260.9
62.5°	6884.6	6847.2	7401.7	7933.1	8295.1	7934.9	7911.7	7394.6	7619.3	7437.4	8006.2
65°	6652.8	6709.9	7503.4	8393.2	9168.8	8899.6	8879.9	8141.7	8264.8	8038.3	8309.3
67.5°	5829.0	5713.1	6824.0	8182.7	9618.2	9910.6	9889.2	8956.6	8628.5	8034.7	7679.9
70°	4272.4	4172.5	5078.3	6929.2	8974.5	10427.7	10513.3	9523.7	8480.5	7285.8	5925.3
72.5°	2093.4	2095.2	2845.9	4698.5	7100.4	9504.0	9546.8	8731.9	7285.8	5370.8	3355.8
75°	618.7	625.9	1053.8	2303.8	4589.8	7218.1	7266.2	6627.9	5049.8	2774.5	1144.8
77.5°	226.5	226.5	349.5	864.8	2289.5	4555.9	4552.3	4069.1	2557.0	939.7	267.5
80°	117.7	123.0	181.9	353.1	991.4	2373.3	2462.5	1991.7	971.8	395.9	78.5
82.5°	48.1	53.5	99.9	181.9	476.1	832.7	911.2	781.0	422.6	276.4	35.7
85°	14.3	16.0	48.1	101.6	187.2	208.6	231.8	262.1	265.7	214.0	16.0
87.5°	1.8	1.8	19.6	33.9	41.0	44.6	51.7	51.7	135.5	149.8	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483754

CATALOG NUMBER: IFLD-M-SA4B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1225.0	1216.1	1201.8	1169.7	1162.6	1139.4	1137.6	1116.2	1123.4	1109.1	1103.8
5°	1216.1	1196.5	1157.2	1132.3	1107.3	1091.3	1080.6	1071.7	1069.9	1062.7	1059.2
7.5°	1232.1	1205.4	1144.8	1105.5	1062.7	1048.5	1025.3	1023.5	1011.0	998.5	998.5
10°	1285.6	1237.5	1171.5	1105.5	1050.3	1003.9	950.4	911.2	896.9	864.8	868.4
12.5°	1328.4	1285.6	1189.3	1121.6	1037.8	932.6	814.9	723.9	681.2	640.1	656.2
15°	1389.1	1326.6	1223.2	1125.1	989.6	807.8	615.2	513.5	474.3	465.4	463.6
17.5°	1455.0	1389.1	1266.0	1116.2	891.6	624.1	452.9	394.1	401.2	411.9	410.1
20°	1528.1	1447.9	1298.1	1085.9	736.4	452.9	370.9	369.1	379.8	395.9	399.4
22.5°	1604.8	1535.3	1337.3	995.0	549.2	363.8	356.6	356.6	363.8	383.4	379.8
25°	1690.4	1597.7	1357.0	854.1	394.1	335.2	338.8	345.9	349.5	365.5	367.3
27.5°	1756.4	1667.2	1362.3	684.7	321.0	310.3	319.2	328.1	333.4	345.9	351.3
30°	1817.0	1754.6	1333.8	510.0	294.2	288.9	292.4	304.9	315.6	326.3	326.3
32.5°	1893.7	1804.5	1267.8	362.0	278.2	269.3	267.5	272.8	285.3	297.8	297.8
35°	1972.1	1888.3	1162.6	290.6	263.9	251.4	244.3	238.9	244.3	253.2	260.3
37.5°	2086.3	2014.9	1030.6	267.5	253.2	235.4	221.1	208.6	199.7	197.9	203.3
40°	2248.5	2157.6	861.2	251.4	240.7	219.3	197.9	176.5	156.9	144.4	146.2
42.5°	2494.6	2368.0	677.6	242.5	231.8	201.5	171.2	140.9	115.9	103.4	103.4
45°	2845.9	2646.2	497.5	233.6	221.1	180.1	140.9	105.2	80.2	73.1	74.9
47.5°	3375.4	2981.4	356.6	219.3	206.8	156.9	110.6	74.9	58.8	55.3	57.1
50°	4067.3	3379.0	278.2	203.3	189.0	132.0	82.0	55.3	46.4	44.6	46.4
52.5°	4793.0	3780.2	244.3	189.0	162.3	105.2	60.6	44.6	39.2	37.4	39.2
55°	5413.6	4038.8	212.2	167.6	130.2	78.5	48.1	39.2	33.9	28.5	28.5
57.5°	6041.2	4168.9	167.6	139.1	96.3	58.8	41.0	33.9	28.5	23.2	21.4
60°	6551.2	4261.7	119.5	103.4	67.8	46.4	35.7	30.3	23.2	17.8	16.0
62.5°	6886.4	3996.0	87.4	78.5	49.9	39.2	30.3	25.0	17.8	12.5	12.5
65°	6720.6	3628.7	67.8	55.3	37.4	30.3	25.0	17.8	12.5	7.1	5.3
67.5°	6030.5	2956.4	55.3	41.0	28.5	23.2	19.6	14.3	7.1	1.8	1.8
70°	4498.8	2166.5	44.6	30.3	23.2	17.8	14.3	8.9	3.6	1.8	0.0
72.5°	2460.7	1185.8	35.7	25.0	17.8	14.3	10.7	7.1	3.6	0.0	0.0
75°	813.1	315.6	26.7	17.8	10.7	8.9	7.1	5.3	1.8	0.0	0.0
77.5°	196.1	82.0	21.4	16.0	8.9	5.3	3.6	1.8	1.8	0.0	0.0
80°	60.6	33.9	16.0	10.7	7.1	5.3	1.8	0.0	0.0	0.0	0.0
82.5°	25.0	16.0	7.1	7.1	5.3	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	8.9	5.3	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.6	1.8	1.8	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)