

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: P483364

Luminaire Tested: **IFLD-M-SA4B-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483364
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

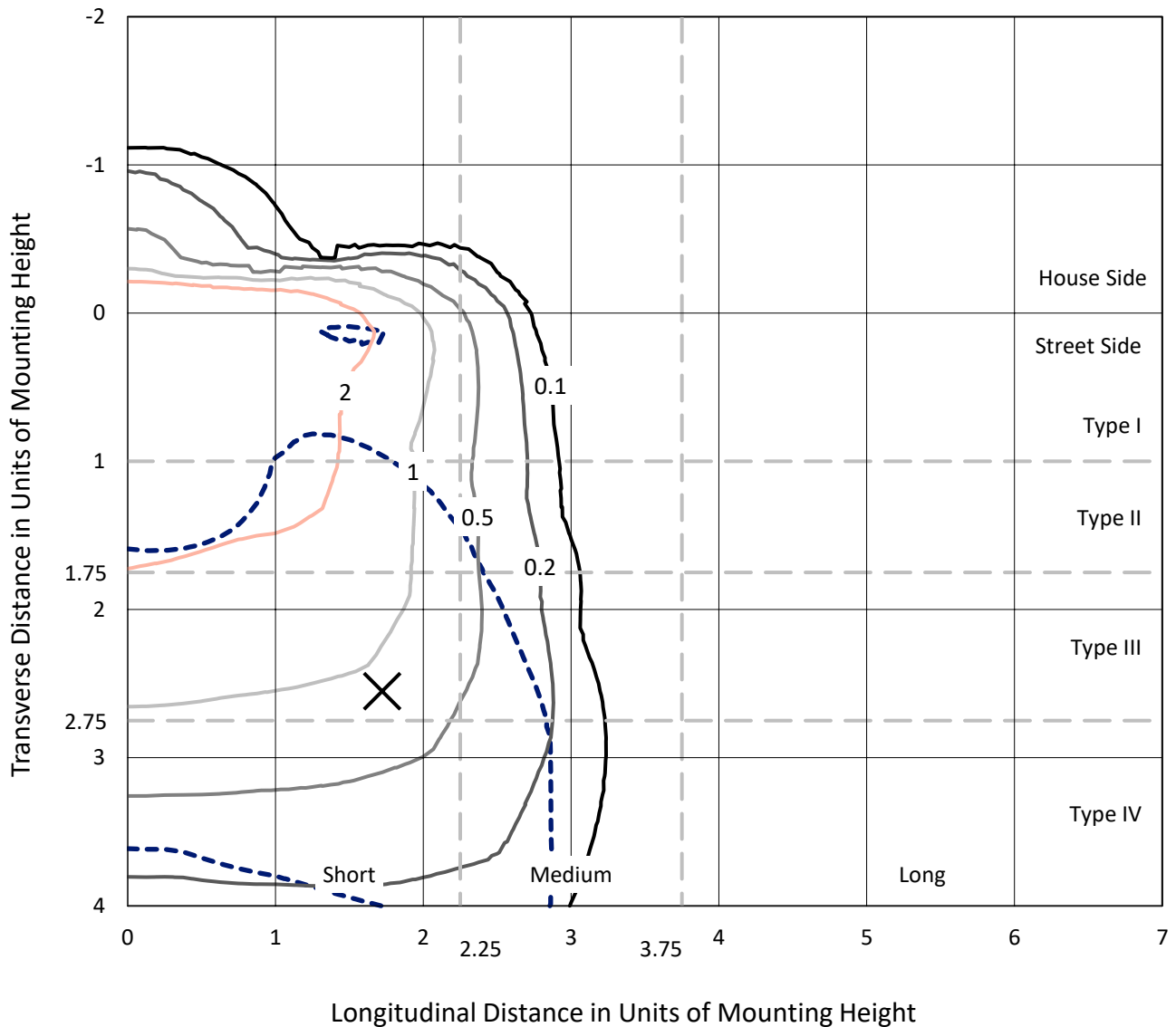
Lumens per Lamp: N/A
Luminaire Lumens: 12140.1 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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: P483364
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

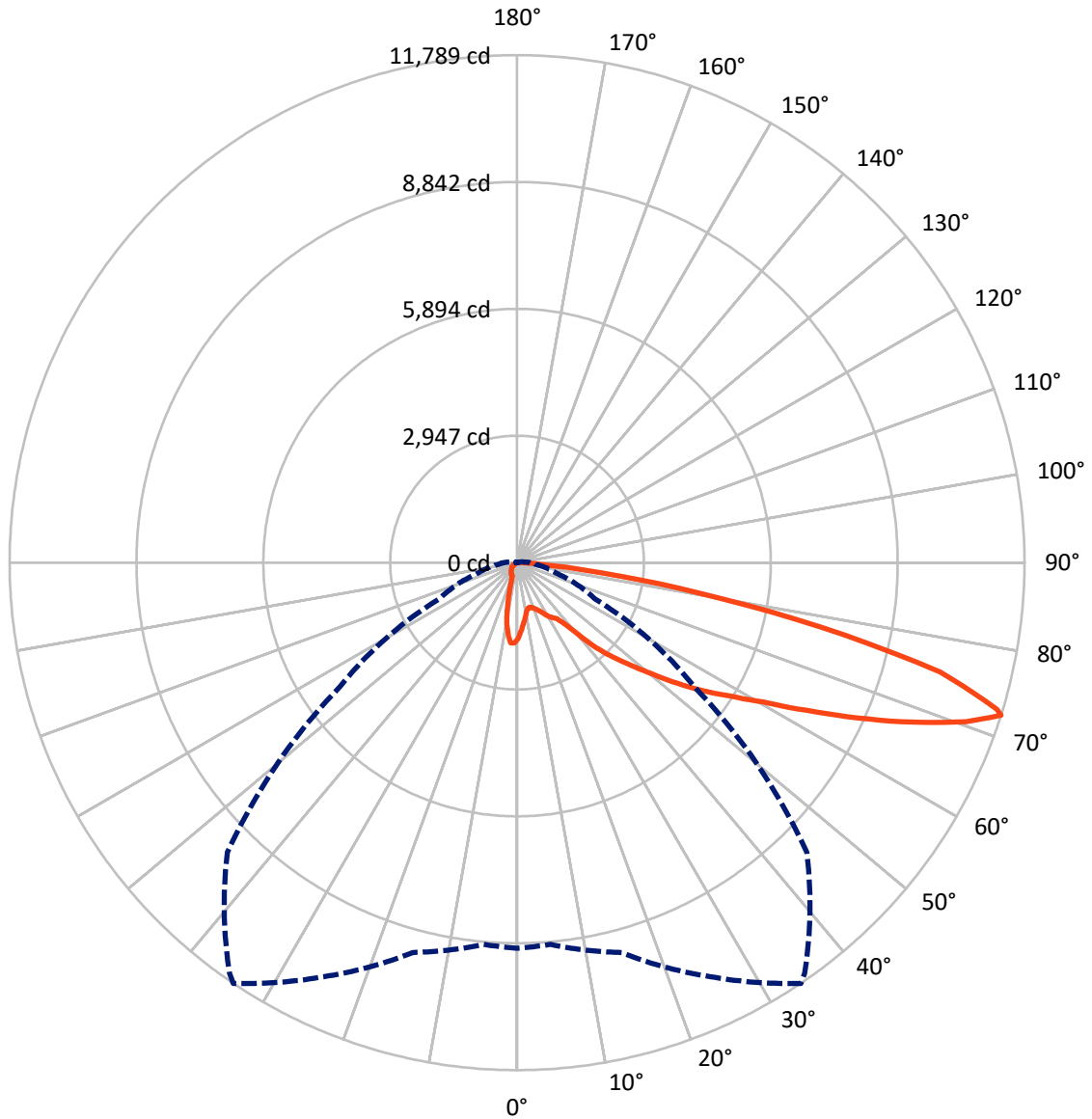
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P483364
CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483364
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.9	0.0	1242.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10897.3	0.0	10897.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	12140.1	0.0	12140.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.3
10°-20°	349.1	2.9
20°-30°	526.9	4.3
30°-40°	855.0	7.0
40°-50°	1607.8	13.2
50°-60°	2628.8	21.7
60°-70°	3494.6	28.8
70°-80°	2340.3	19.3
80°-90°	183.4	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°	12140.1	100.0
0°-180°	12140.1	100.0



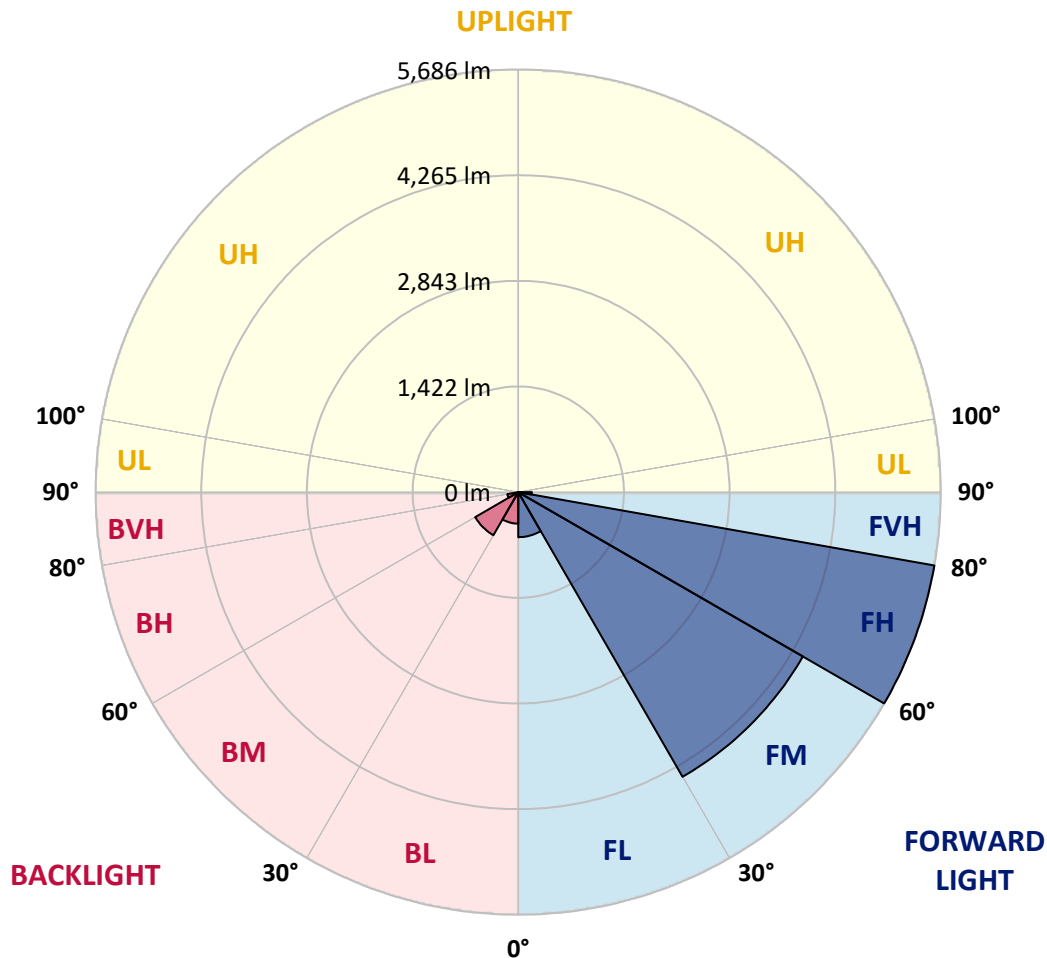
REPORT NUMBER: P483364
 CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.1	5.0			
FM (30°-60°)	4422.6	36.4			
FH (60°-80°)	5686.3	46.8			G3/7500
FVH (80°-90°)	182.2	1.5			G2/225
BL (0°-30°)	424.1	3.5	B1/500		
BM (30°-60°)	669.0	5.5	B1/1000		
BH (60°-80°)	148.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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: P483364

CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1570.8	1567.3	1577.8	1595.3	1612.9	1605.9	1639.2	1674.3	1698.9	1732.2	1772.6
5°	1372.4	1381.2	1391.8	1426.9	1449.7	1454.9	1516.4	1562.0	1637.5	1714.7	1786.6
7.5°	1191.7	1202.2	1223.3	1261.9	1309.3	1321.6	1383.0	1474.2	1572.5	1674.3	1791.9
10°	1060.0	1070.6	1093.4	1118.0	1181.1	1181.1	1265.4	1391.8	1519.9	1639.2	1793.7
12.5°	1032.0	1037.2	1035.5	1054.8	1095.2	1103.9	1186.4	1325.1	1474.2	1626.9	1821.7
15°	1065.3	1068.8	1051.3	1040.7	1075.8	1084.6	1161.8	1284.7	1444.4	1633.9	1867.4
17.5°	1132.0	1119.7	1084.6	1068.8	1098.7	1103.9	1175.9	1282.9	1440.9	1653.3	1920.0
20°	1170.6	1184.7	1123.2	1093.4	1135.5	1142.5	1219.8	1311.0	1458.4	1686.6	1993.7
22.5°	1239.1	1246.1	1163.6	1144.3	1184.7	1184.7	1272.4	1367.2	1500.6	1741.0	2081.5
25°	1335.6	1326.8	1230.3	1211.0	1249.6	1265.4	1353.1	1456.7	1565.5	1791.9	2162.2
27.5°	1411.1	1416.3	1337.3	1286.5	1351.4	1361.9	1456.7	1553.2	1614.6	1834.0	2260.5
30°	1523.4	1512.9	1428.6	1370.7	1451.4	1453.2	1544.4	1644.5	1709.4	1909.5	2407.9
32.5°	1656.8	1635.7	1539.2	1456.7	1521.6	1537.4	1630.4	1776.1	1856.8	2051.7	2636.1
35°	1939.3	1888.4	1730.5	1602.4	1607.6	1614.6	1758.6	1967.4	2060.4	2232.4	2941.5
37.5°	2351.8	2330.7	2151.7	1907.7	1814.7	1793.7	1955.1	2220.1	2336.0	2471.1	3338.1
40°	2760.7	2730.9	2564.1	2379.8	2211.4	2169.2	2250.0	2555.4	2660.7	2802.8	3745.3
42.5°	3215.2	3162.6	2966.0	2816.9	2711.5	2665.9	2634.3	2976.6	3095.9	3192.4	4143.7
45°	3675.1	3589.1	3304.8	3190.7	3134.5	3109.9	3106.4	3506.6	3578.5	3597.8	4585.9
47.5°	4078.7	3985.7	3727.7	3599.6	3557.5	3550.5	3747.0	4117.3	4061.2	4010.3	5079.1
50°	4389.4	4329.7	4143.7	4098.0	4066.4	4054.2	4514.0	4745.7	4485.9	4396.4	5512.6
52.5°	4870.3	4736.9	4526.3	4542.1	4652.6	4654.4	5291.5	5342.4	4838.7	4661.4	5921.5
55°	5254.6	5166.9	4994.9	4972.1	5263.4	5295.0	5988.2	5795.2	5035.2	4914.1	6072.5
57.5°	5707.4	5667.1	5542.4	5546.0	5851.3	5918.0	6607.8	6177.8	5198.5	5077.4	6095.3
60°	6362.0	6246.2	6181.3	6211.1	6570.9	6635.8	7208.0	6453.3	5277.4	5184.4	6039.1
62.5°	7085.1	6950.0	6879.8	7032.5	7557.2	7567.8	7664.3	6697.3	5228.3	5212.5	5677.6
65°	7955.6	7822.2	7766.1	8073.2	8696.3	8657.7	8304.9	6800.8	5072.1	4929.9	4728.1
67.5°	8822.6	8741.9	8626.1	9115.7	9891.5	9891.5	8970.1	6762.2	4663.2	3957.6	3092.4
70°	9233.3	9289.5	9473.7	10242.5	11065.6	10981.3	9626.4	6318.2	3471.5	2125.4	1216.2
72°	8959.5	8901.6	9377.2	10611.0	11788.7	11650.0	9515.9	5022.9	2006.0	931.9	423.0
72.5°	8489.2	8543.6	9198.2	10560.1	11653.5	11767.6	9245.6	4633.3	1649.7	742.4	319.4
75°	5205.5	5298.5	6865.7	8966.5	10154.7	10026.6	7151.8	2207.9	633.6	315.9	114.1
77.5°	1900.7	1977.9	3331.1	5642.5	7222.0	7141.3	4138.4	784.5	344.0	235.2	57.9
80°	494.9	535.3	1132.0	2602.7	4247.2	4252.5	1732.2	314.2	233.4	193.1	35.1
82.5°	98.3	108.8	347.5	1012.7	1985.0	1958.6	547.6	168.5	175.5	158.0	24.6
85°	12.3	15.8	73.7	344.0	642.3	575.7	135.1	84.2	129.9	122.9	15.8
87.5°	1.8	1.8	17.6	79.0	135.1	131.6	28.1	26.3	57.9	75.5	8.8
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: P483364

CATALOG NUMBER: IFLD-M-SA4B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1795.4	1802.4	1827.0	1848.1	1872.6	1879.7	1869.1	1886.7	1862.1	1876.1	1879.7
5°	1798.9	1839.3	1884.9	1914.8	1907.7	1890.2	1876.1	1828.8	1795.4	1783.1	1809.5
7.5°	1823.5	1869.1	1918.3	1918.3	1879.7	1788.4	1700.6	1616.4	1546.2	1511.1	1540.9
10°	1855.1	1902.5	1953.4	1886.7	1742.8	1576.0	1451.4	1293.5	1186.4	1130.3	1135.5
12.5°	1897.2	1963.9	1981.4	1827.0	1588.3	1340.9	1114.5	895.1	793.3	712.5	714.3
15°	1951.6	2016.6	1963.9	1697.1	1391.8	1026.7	754.7	545.8	465.1	423.0	423.0
17.5°	2023.6	2072.7	1958.6	1577.8	1126.7	702.0	463.3	368.6	351.0	344.0	344.0
20°	2107.8	2144.7	1907.7	1391.8	837.2	451.0	340.5	329.9	331.7	328.2	328.2
22.5°	2202.6	2214.9	1849.8	1175.9	566.9	333.5	317.7	319.4	321.2	317.7	319.4
25°	2302.6	2269.3	1765.6	923.2	377.3	303.6	307.1	310.6	312.4	314.2	314.2
27.5°	2414.9	2348.3	1648.0	675.7	294.8	286.1	296.6	307.1	308.9	308.9	307.1
30°	2579.9	2469.4	1533.9	458.1	259.7	266.8	284.3	296.6	305.4	305.4	303.6
32.5°	2788.8	2595.7	1374.2	312.4	240.4	244.0	258.0	282.6	301.9	303.6	298.4
35°	3078.4	2748.4	1207.5	249.2	226.4	228.2	236.9	256.2	289.6	300.1	298.4
37.5°	3383.7	2922.2	1000.4	224.6	215.9	214.1	219.4	235.2	265.0	291.3	293.1
40°	3708.4	3104.7	782.8	212.4	207.1	203.6	205.3	212.4	235.2	268.5	275.5
42.5°	4013.8	3269.7	587.9	200.1	198.3	194.8	194.8	196.6	208.9	231.7	235.2
45°	4343.7	3404.8	447.5	191.3	186.0	187.8	180.8	177.3	186.0	187.8	186.0
47.5°	4652.6	3539.9	358.0	180.8	175.5	175.5	166.7	159.7	159.7	143.9	142.2
50°	4942.2	3613.6	286.1	166.7	165.0	163.2	150.9	138.6	128.1	108.8	105.3
52.5°	5182.7	3610.1	221.1	149.2	154.4	149.2	129.9	112.3	96.5	79.0	75.5
55°	5254.6	3441.6	166.7	122.9	131.6	124.6	103.5	87.8	70.2	56.2	54.4
57.5°	5193.2	3185.4	126.4	94.8	101.8	94.8	79.0	64.9	49.1	38.6	35.1
60°	4987.8	2885.3	98.3	73.7	77.2	72.0	59.7	49.1	35.1	24.6	21.1
62.5°	4598.2	2509.7	75.5	57.9	56.2	56.2	45.6	36.9	24.6	14.0	12.3
65°	3773.4	1956.9	57.9	40.4	40.4	40.4	35.1	26.3	15.8	7.0	3.5
67.5°	2369.3	1139.0	47.4	31.6	29.8	29.8	24.6	17.6	8.8	1.8	0.0
70°	891.6	417.7	36.9	24.6	22.8	22.8	17.6	10.5	5.3	0.0	0.0
72°	307.1	159.7	29.8	17.6	17.6	15.8	12.3	8.8	3.5	0.0	0.0
72.5°	252.7	128.1	28.1	17.6	15.8	15.8	12.3	8.8	3.5	0.0	0.0
75°	91.3	52.7	19.3	12.3	10.5	10.5	8.8	5.3	1.8	0.0	0.0
77.5°	45.6	33.3	15.8	10.5	8.8	5.3	5.3	3.5	1.8	0.0	0.0
80°	28.1	21.1	8.8	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	19.3	12.3	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.3	5.3	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.5	1.8	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)