

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: P482623

Luminaire Tested: **IFLD-M-SA4B-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482623
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-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

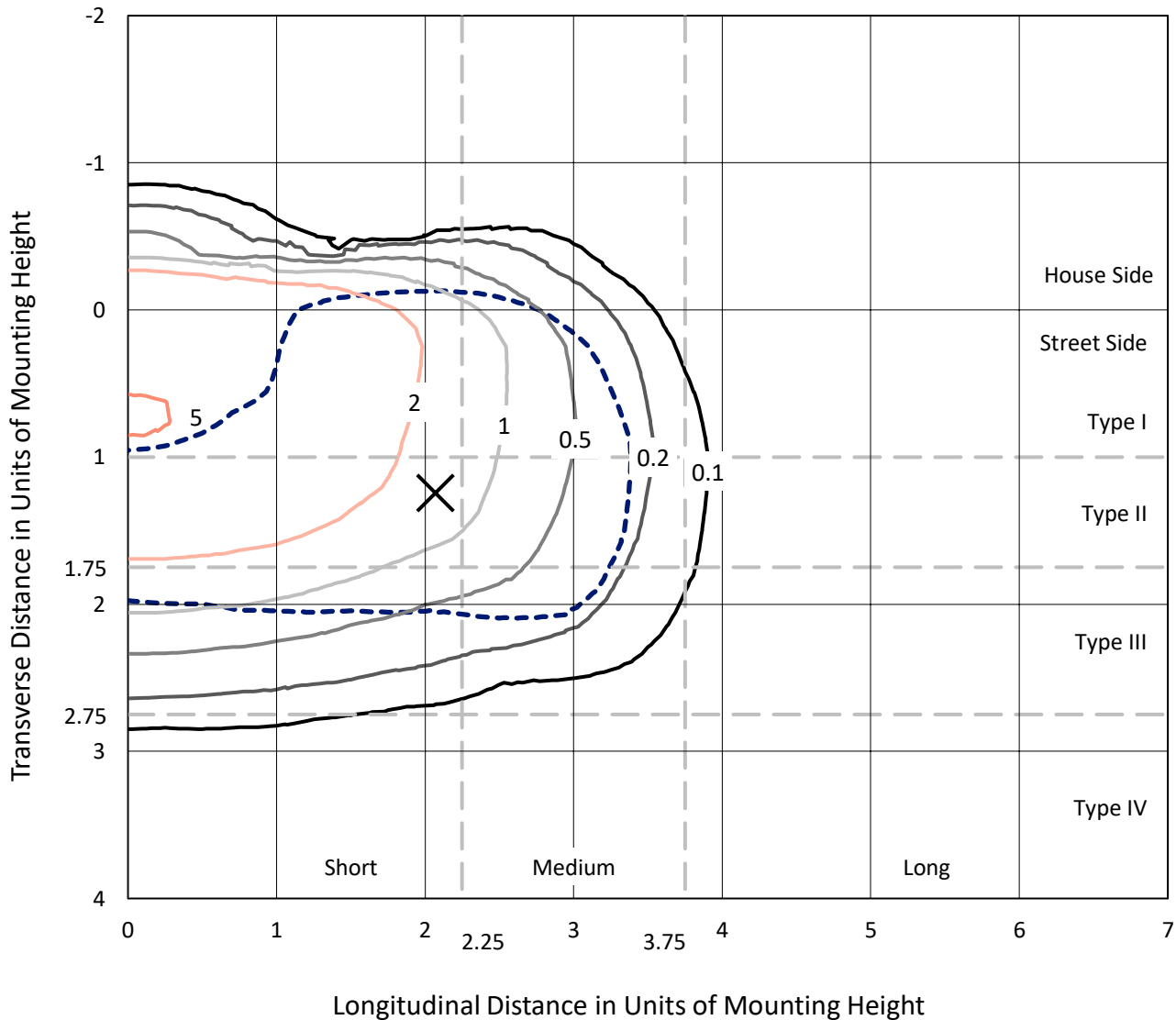
Lumens per Lamp: N/A
Luminaire Lumens: 13466.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P482623
 CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

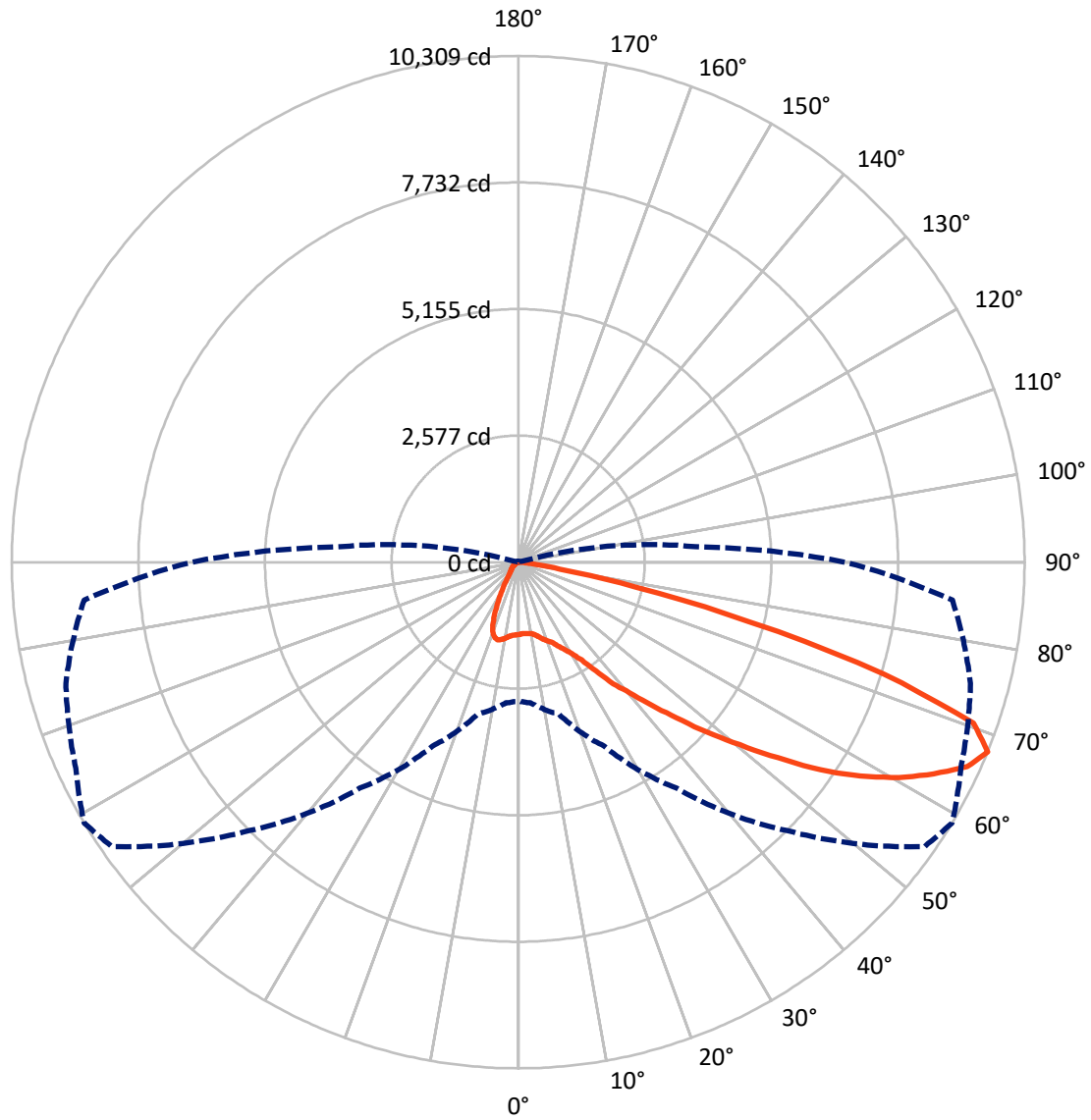
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P482623
CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482623
 CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1581.9	0.0	1581.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	11884.6	0.0	11884.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	13466.4	0.0	13466.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.0
10°-20°	405.3	3.0
20°-30°	708.3	5.3
30°-40°	1247.1	9.3
40°-50°	2204.4	16.4
50°-60°	3490.4	25.9
60°-70°	3871.8	28.8
70°-80°	1343.4	10.0
80°-90°	55.3	0.4
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°	13466.4	100.0
0°-180°	13466.4	100.0

Coefficient of Utilization

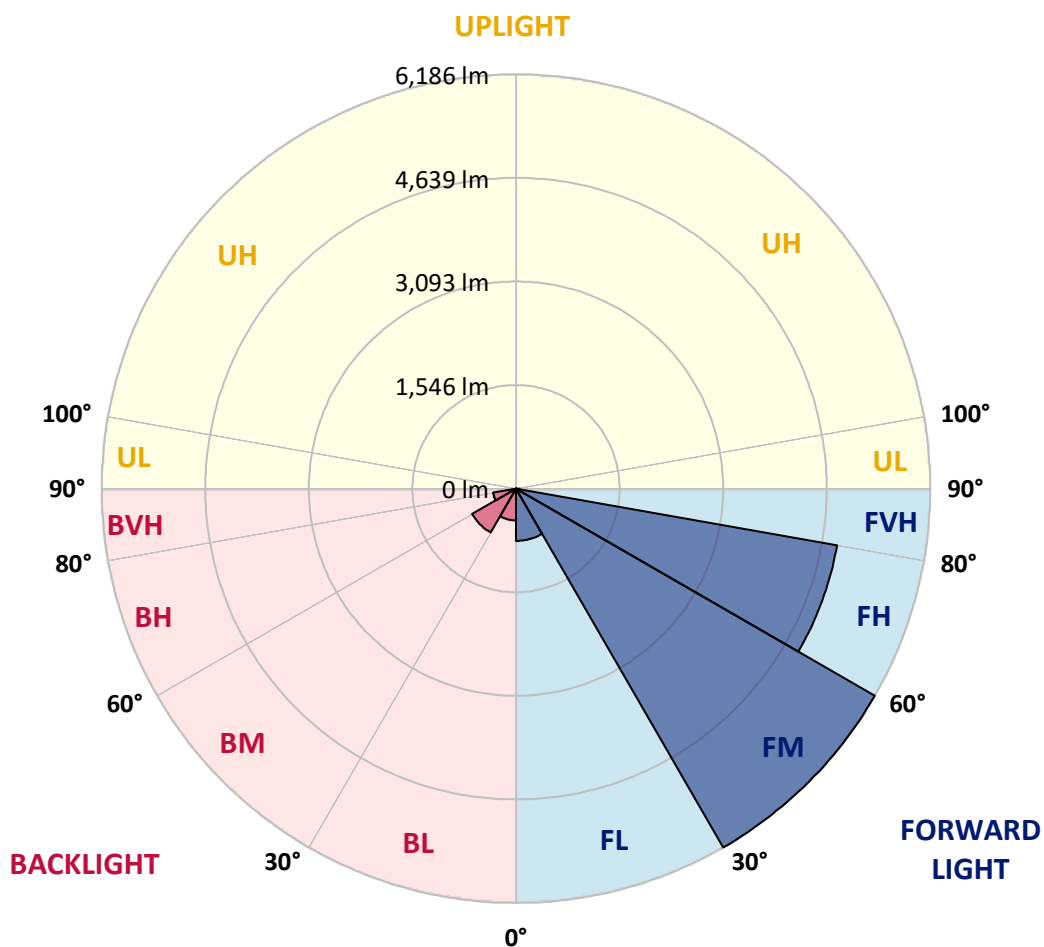


REPORT NUMBER: P482623
 CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.8	5.8			
FM (30°-60°)	6185.6	45.9			
FH (60°-80°)	4867.4	36.1			G2/5000
FVH (80°-90°)	51.7	0.4			G1/100
BL (0°-30°)	474.1	3.5	B1/500		
BM (30°-60°)	756.3	5.6	B1/1000		
BH (60°-80°)	347.9	2.6	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Short





REPORT NUMBER: P482623

CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1434.2	1413.8	1432.4	1434.2	1436.1	1452.8	1471.4	1458.4	1456.6	1471.4	1484.5
5°	1376.6	1367.3	1389.6	1400.8	1419.4	1434.2	1464.0	1465.9	1467.7	1484.5	1506.8
7.5°	1352.4	1330.1	1356.1	1369.1	1382.2	1417.5	1452.8	1471.4	1497.5	1517.9	1540.3
10°	1304.0	1320.8	1328.2	1350.5	1387.7	1428.7	1471.4	1480.7	1538.4	1555.2	1609.1
12.5°	1320.8	1331.9	1346.8	1352.4	1393.3	1454.7	1512.4	1516.1	1575.6	1648.2	1676.1
15°	1363.6	1356.1	1361.7	1369.1	1417.5	1467.7	1560.7	1577.5	1633.3	1715.1	1784.0
17.5°	1454.7	1441.7	1432.4	1430.5	1441.7	1488.2	1597.9	1648.2	1700.3	1811.9	1847.2
20°	1683.5	1672.3	1635.1	1538.4	1504.9	1523.5	1642.6	1713.3	1785.8	1910.5	1968.1
22.5°	2031.4	2042.5	1955.1	1819.3	1679.8	1607.2	1713.3	1774.7	1890.0	2048.1	2100.2
25°	2442.5	2420.2	2314.1	2156.0	1936.5	1765.4	1826.7	1895.6	2037.0	2167.2	2187.6
27.5°	2764.3	2738.3	2656.4	2464.8	2275.1	1997.9	1975.6	2018.4	2185.8	2303.0	2280.6
30°	3082.4	3091.7	3035.9	2809.0	2574.6	2282.5	2141.1	2159.7	2288.1	2438.8	2388.5
32.5°	3487.9	3465.6	3434.0	3234.9	2957.8	2645.3	2403.4	2373.7	2429.5	2628.5	2569.0
35°	3865.6	3852.5	3809.8	3608.9	3367.0	3026.6	2790.3	2723.4	2710.4	2931.7	2827.6
37.5°	4194.8	4172.5	4107.4	3979.0	3744.6	3458.2	3199.6	3140.1	3138.2	3290.8	3089.8
40°	4472.0	4488.7	4481.3	4339.9	4211.6	3982.8	3586.5	3491.7	3484.2	3566.1	3448.9
42.5°	4831.0	4870.1	4849.6	4821.7	4667.3	4578.0	4129.7	3984.6	3919.5	4086.9	3980.9
45°	5374.2	5389.1	5402.1	5333.3	5178.9	5197.5	4691.5	4518.5	4501.8	4751.0	4512.9
47.5°	5882.1	5843.0	5934.1	5937.9	5930.4	5844.9	5297.9	5169.6	5191.9	5381.7	5136.1
50°	6008.6	6109.0	6360.1	6406.6	6527.6	6605.7	5971.3	5843.0	5880.2	6096.0	5815.1
52.5°	6107.1	6259.7	6510.8	6851.2	7176.8	7362.8	6724.7	6620.6	6618.7	6750.8	6363.9
55°	6280.1	6373.2	6590.8	7059.6	7679.0	7984.1	7632.5	7465.1	7314.4	7407.4	6933.1
57.5°	6263.4	6298.7	6637.3	7215.8	8077.1	8631.5	8378.5	8218.5	8025.0	7971.1	7587.9
60°	5969.5	6053.2	6432.7	7109.8	8322.7	9135.6	9074.2	8910.5	8577.5	8451.0	8090.2
62.5°	5387.2	5498.8	5796.5	6737.8	7965.5	9161.6	9554.2	9492.8	9120.7	8893.8	8745.0
65°	4366.0	4418.1	4760.3	5792.8	7158.2	8761.7	10121.5	10045.3	9703.0	9364.4	9081.7
67.5°	2827.6	2877.8	3207.0	4135.3	5621.6	7729.3	10099.2	10309.4	9939.2	9531.8	8871.4
70°	1335.6	1322.6	1629.6	2297.4	3601.4	5902.5	9416.5	9831.3	9516.9	8640.8	7368.4
72.5°	407.4	442.7	677.1	1017.5	1849.1	3681.4	7381.4	7770.2	7671.6	6903.3	4918.5
75°	180.4	195.3	266.0	416.7	749.7	1510.5	4559.4	4905.4	4862.6	4072.0	2245.3
77.5°	115.3	126.5	167.4	238.1	340.4	479.9	2100.2	2436.9	2362.5	1430.5	587.8
80°	81.9	87.4	119.1	163.7	213.9	197.2	723.6	859.4	824.1	388.8	158.1
82.5°	44.6	48.4	87.4	120.9	143.2	100.5	202.8	253.0	264.2	173.0	76.3
85°	16.7	20.5	53.9	85.6	74.4	46.5	59.5	72.5	94.9	94.9	35.3
87.5°	0.0	1.9	22.3	37.2	18.6	13.0	16.7	20.5	26.0	44.6	13.0
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: P482623
 CATALOG NUMBER: IFLD-M-SA4B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1493.8	1480.7	1486.3	1495.6	1475.2	1486.3	1464.0	1480.7	1486.3	1464.0	1475.2
5°	1512.4	1525.4	1517.9	1503.1	1490.0	1493.8	1488.2	1475.2	1486.3	1490.0	1482.6
7.5°	1566.3	1551.4	1555.2	1538.4	1512.4	1510.5	1475.2	1465.9	1469.6	1473.3	1460.3
10°	1616.5	1625.8	1607.2	1594.2	1551.4	1523.5	1475.2	1423.1	1417.5	1395.2	1413.8
12.5°	1705.8	1683.5	1676.1	1633.3	1590.5	1497.5	1393.3	1313.3	1246.4	1222.2	1198.0
15°	1780.2	1776.5	1763.5	1698.4	1599.8	1430.5	1233.3	1047.3	919.0	839.0	827.8
17.5°	1882.6	1865.8	1841.6	1739.3	1531.0	1255.7	919.0	684.6	556.2	506.0	487.4
20°	1960.7	1947.7	1914.2	1730.0	1406.3	935.7	569.2	435.3	403.7	394.4	396.2
22.5°	2074.2	2033.2	1970.0	1683.5	1179.4	623.2	409.3	388.8	383.2	375.8	377.6
25°	2172.8	2135.5	2003.5	1603.5	840.8	413.0	379.5	368.3	359.0	349.7	347.9
27.5°	2260.2	2213.7	2038.8	1439.8	526.4	355.3	351.6	338.6	320.0	305.1	299.5
30°	2345.8	2291.8	2048.1	1132.9	355.3	321.8	312.5	292.1	267.9	247.4	243.7
32.5°	2489.0	2423.9	2035.1	809.2	306.9	286.5	266.0	241.8	206.5	189.7	186.0
35°	2712.2	2613.6	2018.4	476.2	275.3	253.0	221.4	189.7	163.7	147.0	143.2
37.5°	2968.9	2797.8	1970.0	318.1	253.0	223.2	182.3	150.7	128.4	115.3	111.6
40°	3350.3	3067.5	1784.0	260.4	225.1	189.7	147.0	119.1	102.3	93.0	89.3
42.5°	3770.7	3376.3	1497.5	234.4	199.0	161.8	117.2	96.7	83.7	74.4	74.4
45°	4274.8	3698.1	1155.2	213.9	176.7	133.9	96.7	78.1	67.0	59.5	55.8
47.5°	4836.6	3990.2	779.4	193.5	148.8	109.8	80.0	59.5	48.4	42.8	42.8
50°	5338.9	4248.8	496.7	169.3	130.2	91.2	65.1	48.4	39.1	31.6	29.8
52.5°	5794.6	4446.0	342.3	148.8	111.6	74.4	53.9	39.1	29.8	24.2	24.2
55°	6261.5	4546.4	253.0	128.4	96.7	63.2	44.6	35.3	26.0	20.5	18.6
57.5°	6644.8	4589.2	193.5	111.6	81.9	50.2	39.1	29.8	22.3	16.7	14.9
60°	6972.2	4568.7	150.7	93.0	65.1	42.8	33.5	24.2	18.6	13.0	11.2
62.5°	7163.8	4446.0	119.1	80.0	52.1	37.2	27.9	20.5	13.0	9.3	7.4
65°	7167.5	4185.5	93.0	59.5	39.1	31.6	24.2	16.7	9.3	3.7	1.9
67.5°	6654.1	3621.9	74.4	46.5	31.6	24.2	18.6	13.0	3.7	0.0	0.0
70°	5204.9	2740.1	61.4	37.2	26.0	20.5	13.0	7.4	1.9	0.0	0.0
72.5°	3316.8	1640.7	50.2	29.8	22.3	14.9	9.3	5.6	0.0	0.0	0.0
75°	1387.7	506.0	39.1	26.0	16.7	11.2	7.4	1.9	0.0	0.0	0.0
77.5°	357.2	160.0	31.6	22.3	16.7	9.3	5.6	1.9	0.0	0.0	0.0
80°	106.0	59.5	26.0	18.6	13.0	7.4	3.7	1.9	0.0	0.0	0.0
82.5°	48.4	35.3	22.3	16.7	11.2	7.4	3.7	0.0	0.0	0.0	0.0
85°	18.6	11.2	11.2	9.3	9.3	5.6	1.9	0.0	0.0	0.0	0.0
87.5°	7.4	3.7	3.7	3.7	1.9	1.9	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)