

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: P482617

Luminaire Tested: **IFLD-S-SA6A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482617
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

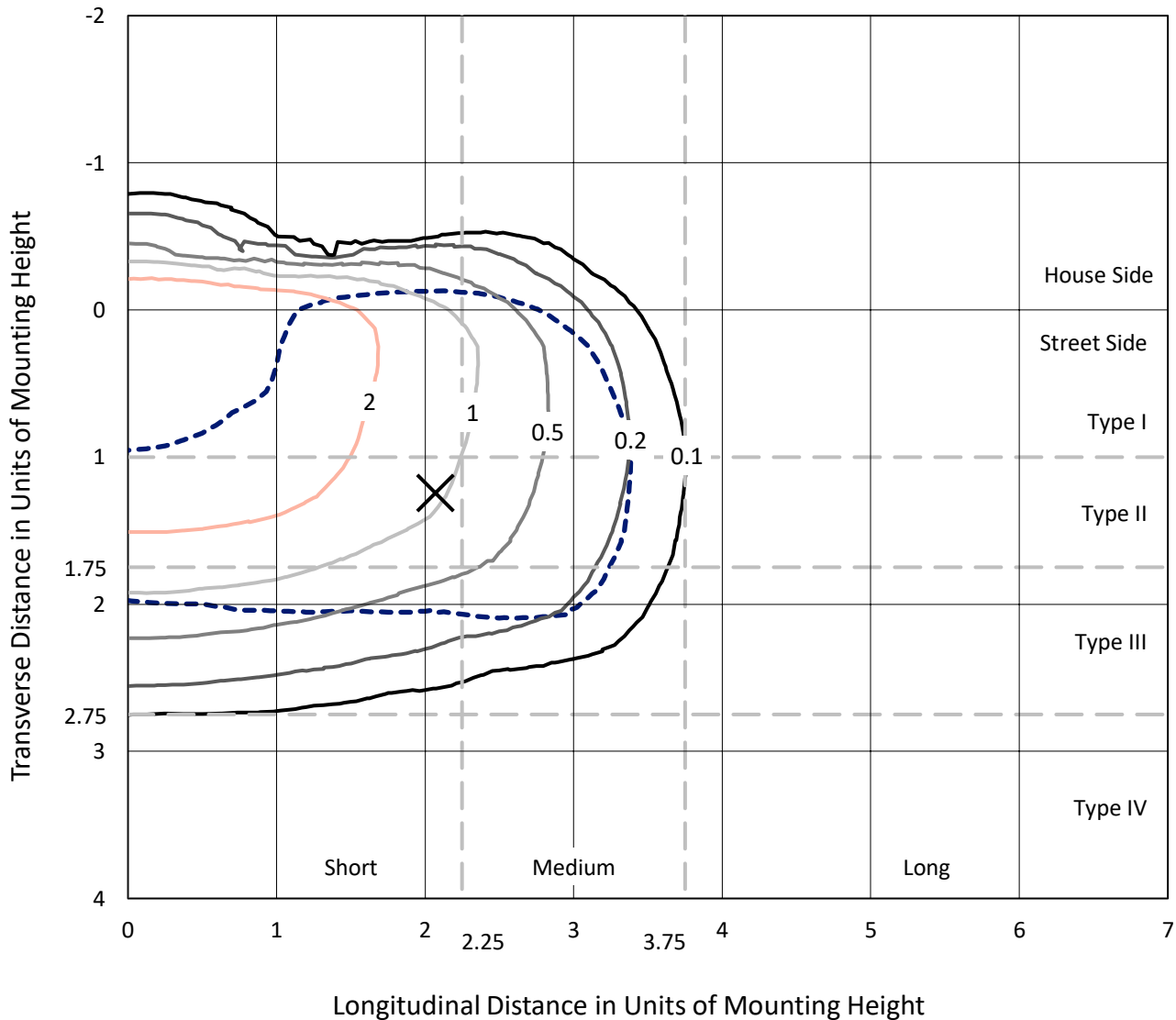
Lumens per Lamp: N/A
Luminaire Lumens: 15913.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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: P482617
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

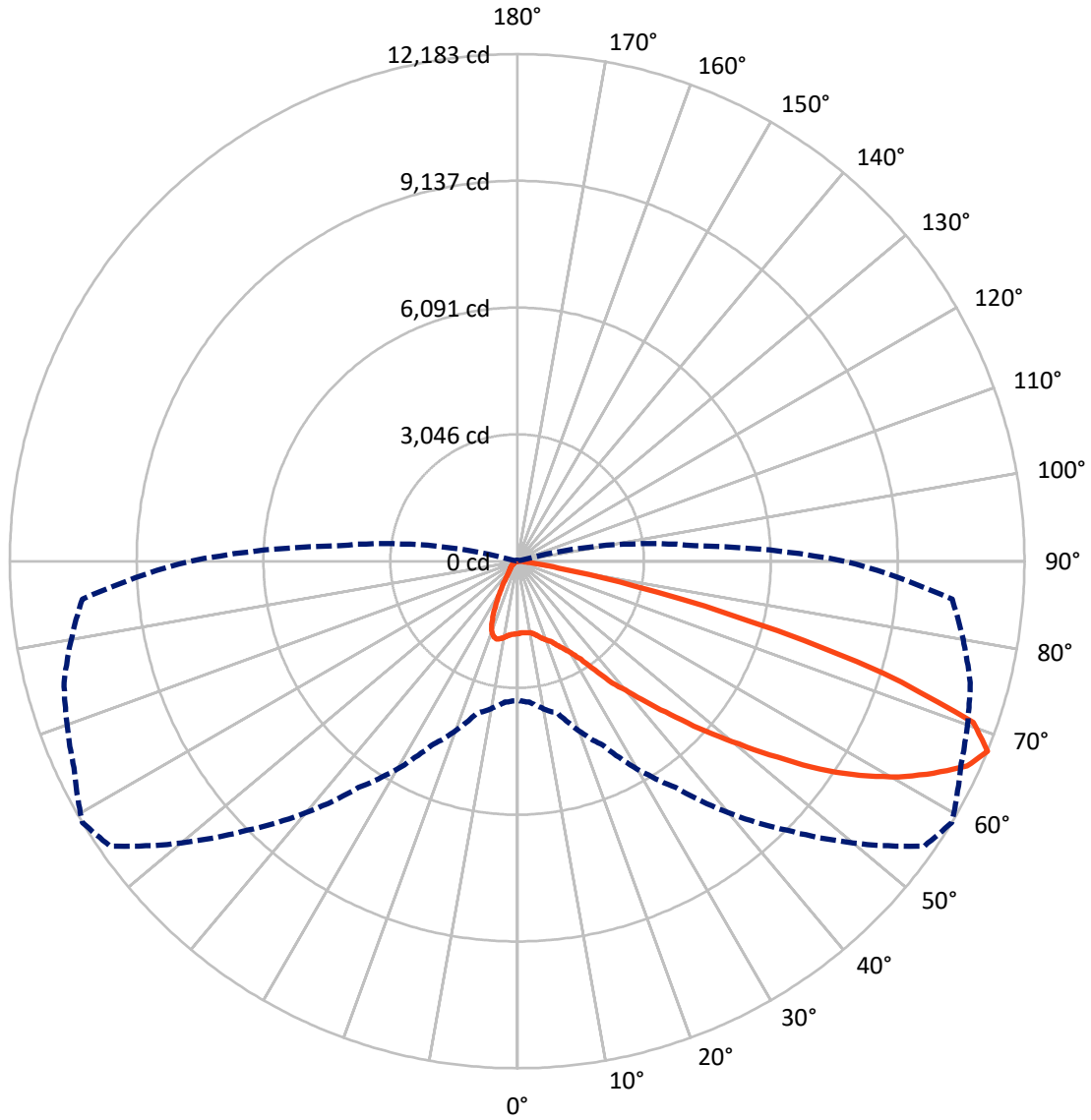
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

REPORT NUMBER: P482617
CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482617
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.3	0.0	1869.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	14044.3	0.0	14044.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	15913.6	0.0	15913.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.0
10°-20°	478.9	3.0
20°-30°	837.0	5.3
30°-40°	1473.7	9.3
40°-50°	2605.0	16.4
50°-60°	4124.7	25.9
60°-70°	4575.4	28.8
70°-80°	1587.6	10.0
80°-90°	65.4	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°	15913.6	100.0
0°-180°	15913.6	100.0

Coefficient of Utilization



REPORT NUMBER: P482617

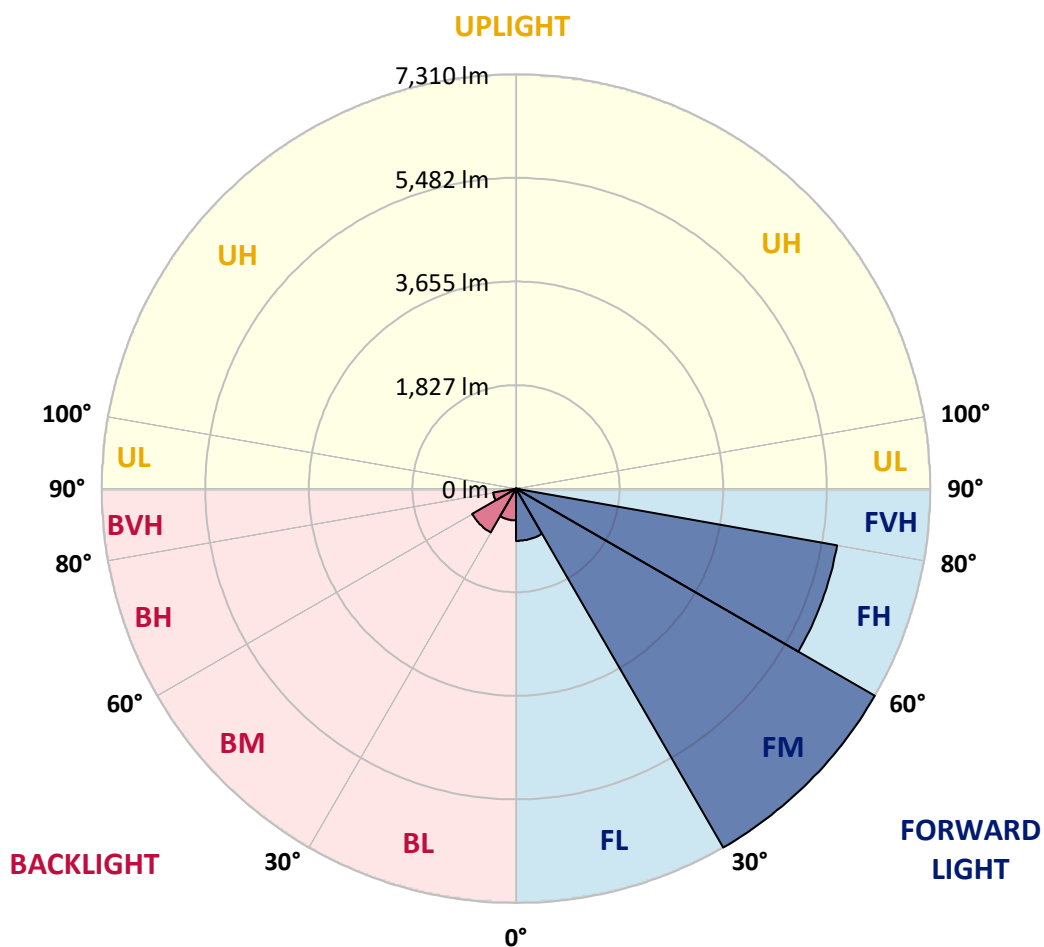
CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.5	5.8			
FM (30°-60°)	7309.7	45.9			
FH (60°-80°)	5751.9	36.1			G3/7500
FVH (80°-90°)	61.1	0.4			G1/100
BL (0°-30°)	560.2	3.5	B2/1000		
BM (30°-60°)	893.8	5.6	B1/1000		
BH (60°-80°)	411.1	2.6	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P482617

CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4
2.5°	1694.9	1670.7	1692.7	1694.9	1697.1	1716.9	1738.8	1723.5	1721.3	1738.8	1754.2
5°	1626.7	1615.7	1642.1	1655.3	1677.3	1694.9	1730.0	1732.2	1734.4	1754.2	1780.6
7.5°	1598.2	1571.8	1602.5	1617.9	1633.3	1675.1	1716.9	1738.8	1769.6	1793.8	1820.2
10°	1541.0	1560.8	1569.6	1596.0	1639.9	1688.3	1738.8	1749.8	1818.0	1837.8	1901.5
12.5°	1560.8	1574.0	1591.6	1598.2	1646.5	1719.1	1787.2	1791.6	1861.9	1947.7	1980.7
15°	1611.3	1602.5	1609.1	1617.9	1675.1	1734.4	1844.4	1864.1	1930.1	2026.8	2108.2
17.5°	1719.1	1703.7	1692.7	1690.5	1703.7	1758.6	1888.3	1947.7	2009.2	2141.1	2182.9
20°	1989.4	1976.3	1932.3	1818.0	1778.4	1800.4	1941.1	2024.6	2110.4	2257.6	2325.8
22.5°	2400.5	2413.7	2310.4	2149.9	1985.0	1899.3	2024.6	2097.2	2233.5	2420.3	2481.9
25°	2886.3	2860.0	2734.7	2547.8	2288.4	2086.2	2158.7	2240.1	2407.1	2561.0	2585.2
27.5°	3266.6	3235.9	3139.1	2912.7	2688.5	2361.0	2334.6	2385.1	2583.0	2721.5	2695.1
30°	3642.6	3653.5	3587.6	3319.4	3042.4	2697.3	2530.2	2552.2	2703.9	2881.9	2822.6
32.5°	4121.8	4095.4	4058.0	3822.8	3495.3	3126.0	2840.2	2805.0	2871.0	3106.2	3035.8
35°	4568.0	4552.6	4502.1	4264.7	3978.9	3576.6	3297.4	3218.3	3202.9	3464.5	3341.4
37.5°	4957.1	4930.7	4853.8	4702.1	4425.1	4086.6	3781.0	3710.7	3708.5	3888.8	3651.3
40°	5284.7	5304.5	5295.7	5128.6	4976.9	4706.5	4238.3	4126.2	4117.4	4214.1	4075.6
42.5°	5708.9	5755.1	5730.9	5697.9	5515.5	5410.0	4880.2	4708.7	4631.8	4829.6	4704.3
45°	6350.8	6368.4	6383.8	6302.5	6120.0	6142.0	5544.1	5339.6	5319.8	5614.4	5333.0
47.5°	6951.0	6904.8	7012.5	7016.9	7008.1	6907.0	6260.7	6109.0	6135.4	6359.6	6069.5
50°	7100.5	7219.2	7515.9	7570.9	7713.8	7806.1	7056.5	6904.8	6948.8	7203.8	6871.8
52.5°	7217.0	7397.2	7694.0	8096.3	8481.0	8700.8	7946.8	7823.7	7821.5	7977.6	7520.3
55°	7421.4	7531.3	7788.5	8342.5	9074.5	9435.0	9019.6	8821.7	8643.6	8753.6	8193.0
57.5°	7401.6	7443.4	7843.5	8527.1	9544.9	10200.0	9901.1	9712.0	9483.4	9419.6	8966.8
60°	7054.3	7153.2	7601.7	8401.8	9835.1	10795.8	10723.2	10529.8	10136.3	9986.8	9560.3
62.5°	6366.2	6498.1	6849.8	7962.2	9413.0	10826.5	11290.4	11217.8	10778.2	10510.0	10334.1
65°	5159.4	5220.9	5625.4	6845.5	8459.0	10353.9	11960.9	11870.7	11466.2	11066.2	10732.0
67.5°	3341.4	3400.7	3789.8	4886.8	6643.2	9133.9	11934.5	12182.9	11745.4	11264.0	10483.6
70°	1578.4	1563.0	1925.7	2714.9	4255.9	6975.2	11127.7	11617.9	11246.4	10211.0	8707.4
72.5°	481.4	523.2	800.2	1202.5	2185.1	4350.4	8722.8	9182.2	9065.7	8157.8	5812.3
75°	213.2	230.8	314.4	492.4	885.9	1785.0	5388.0	5796.9	5746.3	4812.0	2653.3
77.5°	136.3	149.5	197.8	281.4	402.3	567.2	2481.9	2879.8	2791.8	1690.5	694.7
80°	96.7	103.3	140.7	193.4	252.8	233.0	855.1	1015.6	973.8	459.4	186.9
82.5°	52.8	57.2	103.3	142.9	169.3	118.7	239.6	299.0	312.2	204.4	90.1
85°	19.8	24.2	63.8	101.1	87.9	55.0	70.3	85.7	112.1	112.1	41.8
87.5°	0.0	2.2	26.4	44.0	22.0	15.4	19.8	24.2	30.8	52.8	15.4
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: P482617
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4	1745.4
2.5°	1765.2	1749.8	1756.4	1767.4	1743.2	1756.4	1730.0	1749.8	1756.4	1730.0	1743.2
5°	1787.2	1802.6	1793.8	1776.2	1760.8	1765.2	1758.6	1743.2	1756.4	1760.8	1752.0
7.5°	1851.0	1833.4	1837.8	1818.0	1787.2	1785.0	1743.2	1732.2	1736.6	1741.0	1725.7
10°	1910.3	1921.3	1899.3	1883.9	1833.4	1800.4	1743.2	1681.7	1675.1	1648.7	1670.7
12.5°	2015.8	1989.4	1980.7	1930.1	1879.5	1769.6	1646.5	1552.0	1472.8	1444.3	1415.7
15°	2103.8	2099.4	2084.0	2007.0	1890.5	1690.5	1457.5	1237.6	1086.0	991.4	978.2
17.5°	2224.7	2204.9	2176.3	2055.4	1809.2	1483.8	1086.0	809.0	657.3	597.9	576.0
20°	2317.0	2301.6	2262.0	2044.4	1661.9	1105.7	672.7	514.4	477.0	466.0	468.2
22.5°	2451.1	2402.7	2328.0	1989.4	1393.7	736.4	483.6	459.4	452.8	444.1	446.3
25°	2567.6	2523.6	2367.6	1894.9	993.6	488.0	448.4	435.3	424.3	413.3	411.1
27.5°	2670.9	2616.0	2409.3	1701.5	622.1	419.9	415.5	400.1	378.1	360.5	353.9
30°	2772.0	2708.3	2420.3	1338.8	419.9	380.3	369.3	345.1	316.6	292.4	288.0
32.5°	2941.3	2864.4	2404.9	956.3	362.7	338.5	314.4	285.8	244.0	224.2	219.8
35°	3205.1	3088.6	2385.1	562.8	325.3	299.0	261.6	224.2	193.4	173.7	169.3
37.5°	3508.5	3306.2	2328.0	375.9	299.0	263.8	215.4	178.1	151.7	136.3	131.9
40°	3959.1	3625.0	2108.2	307.8	266.0	224.2	173.7	140.7	120.9	109.9	105.5
42.5°	4455.9	3989.9	1769.6	277.0	235.2	191.3	138.5	114.3	98.9	87.9	87.9
45°	5051.7	4370.2	1365.1	252.8	208.8	158.3	114.3	92.3	79.1	70.3	65.9
47.5°	5715.5	4715.3	921.1	228.6	175.9	129.7	94.5	70.3	57.2	50.6	50.6
50°	6309.1	5020.9	586.9	200.0	153.9	107.7	76.9	57.2	46.2	37.4	35.2
52.5°	6847.7	5253.9	404.5	175.9	131.9	87.9	63.8	46.2	35.2	28.6	28.6
55°	7399.4	5372.6	299.0	151.7	114.3	74.7	52.8	41.8	30.8	24.2	22.0
57.5°	7852.3	5423.2	228.6	131.9	96.7	59.4	46.2	35.2	26.4	19.8	17.6
60°	8239.2	5399.0	178.1	109.9	76.9	50.6	39.6	28.6	22.0	15.4	13.2
62.5°	8465.6	5253.9	140.7	94.5	61.6	44.0	33.0	24.2	15.4	11.0	8.8
65°	8470.0	4946.1	109.9	70.3	46.2	37.4	28.6	19.8	11.0	4.4	2.2
67.5°	7863.3	4280.1	87.9	55.0	37.4	28.6	22.0	15.4	4.4	0.0	0.0
70°	6150.8	3238.1	72.5	44.0	30.8	24.2	15.4	8.8	2.2	0.0	0.0
72.5°	3919.5	1938.9	59.4	35.2	26.4	17.6	11.0	6.6	0.0	0.0	0.0
75°	1639.9	597.9	46.2	30.8	19.8	13.2	8.8	2.2	0.0	0.0	0.0
77.5°	422.1	189.1	37.4	26.4	19.8	11.0	6.6	2.2	0.0	0.0	0.0
80°	125.3	70.3	30.8	22.0	15.4	8.8	4.4	2.2	0.0	0.0	0.0
82.5°	57.2	41.8	26.4	19.8	13.2	8.8	4.4	0.0	0.0	0.0	0.0
85°	22.0	13.2	13.2	11.0	11.0	6.6	2.2	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	2.2	2.2	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)