

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: P483462

Luminaire Tested: **IFLD-S-SA3C-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

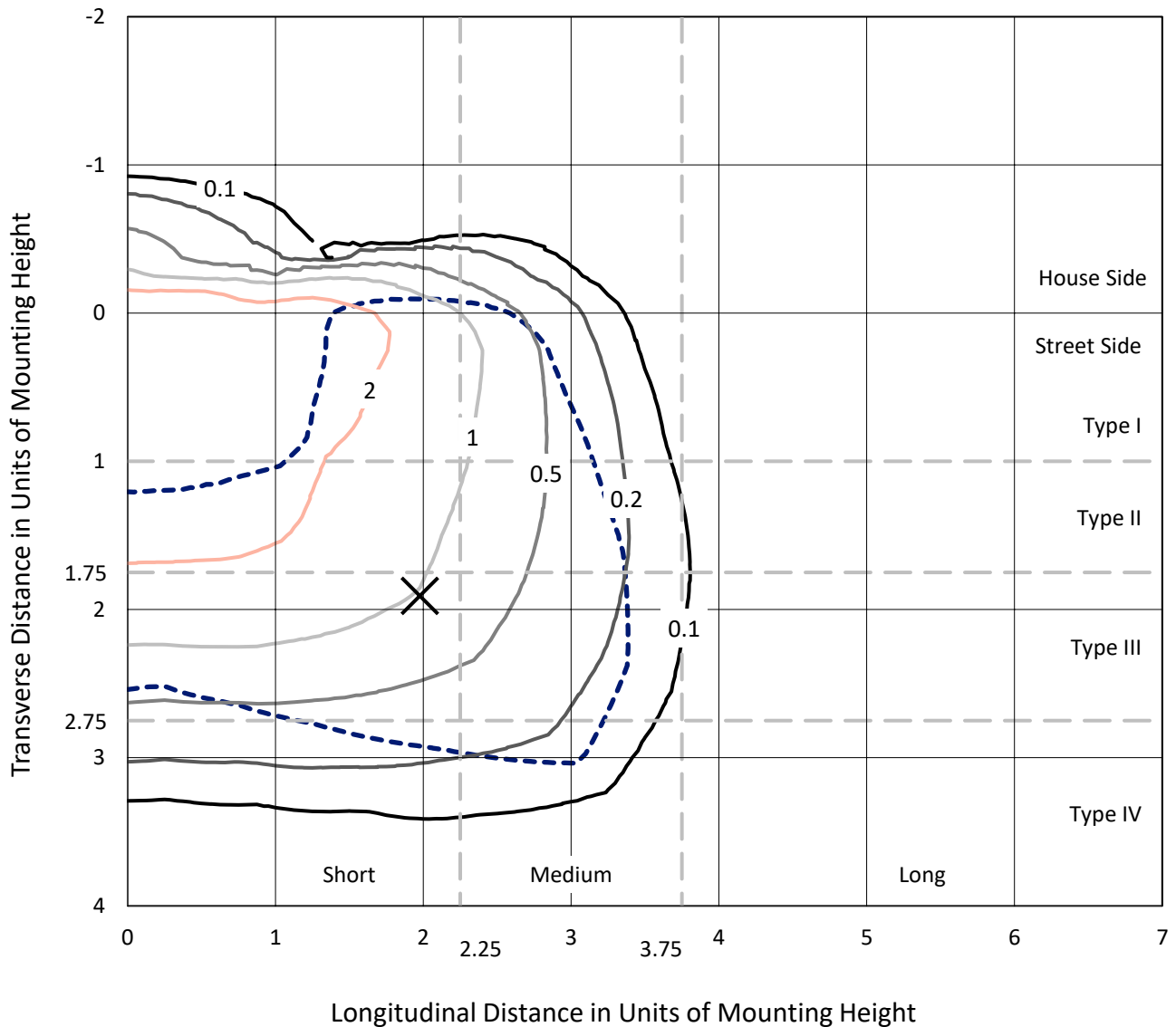
Lumens per Lamp: N/A
Luminaire Lumens: 11512.2 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

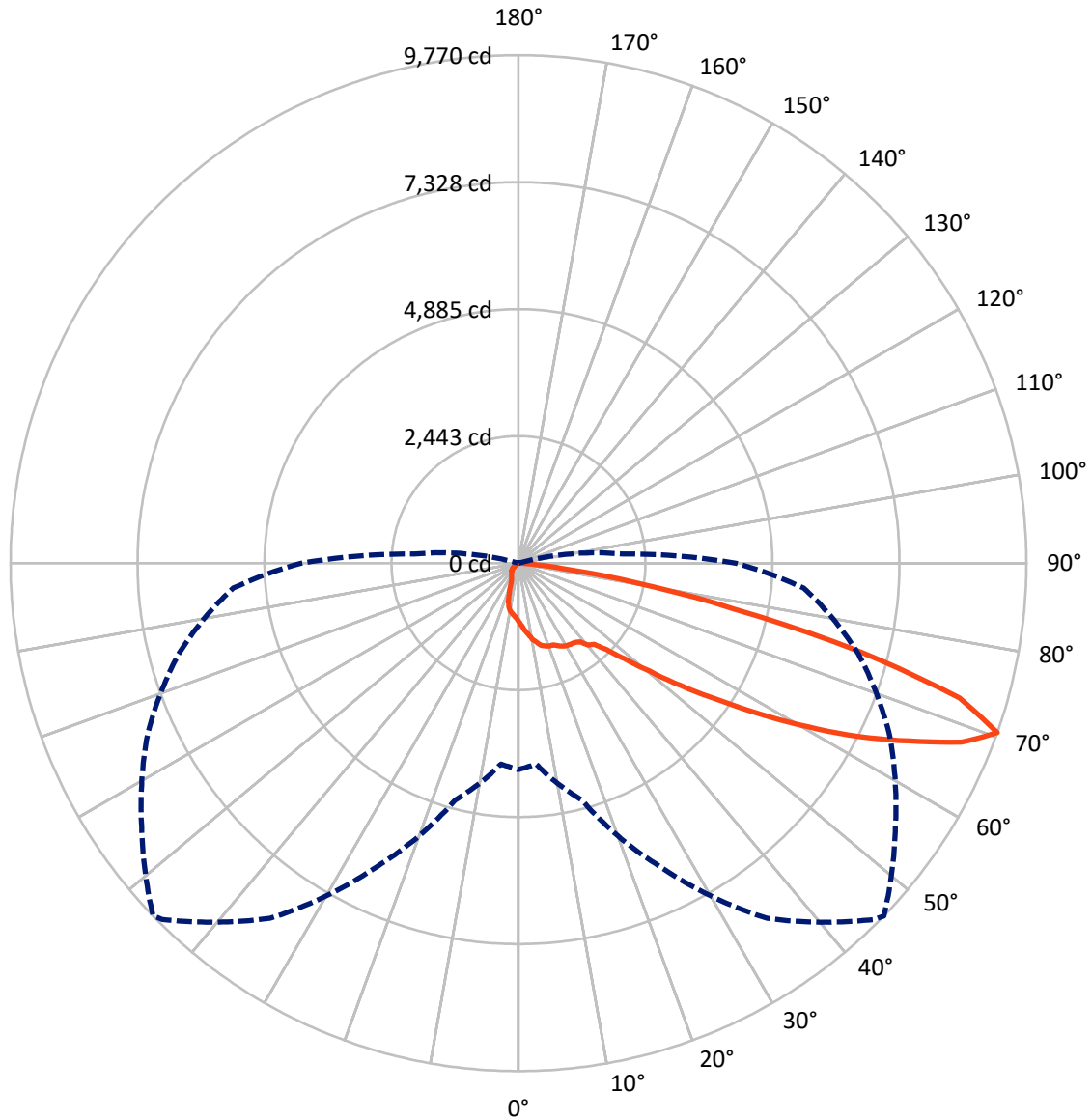
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.5	0.0	1145.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	10366.7	0.0	10366.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	11512.2	0.0	11512.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.0
10°-20°	340.3	3.0
20°-30°	545.1	4.7
30°-40°	778.1	6.8
40°-50°	1343.5	11.7
50°-60°	2572.2	22.3
60°-70°	3809.1	33.1
70°-80°	1886.6	16.4
80°-90°	124.7	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°	11512.2	100.0
0°-180°	11512.2	100.0



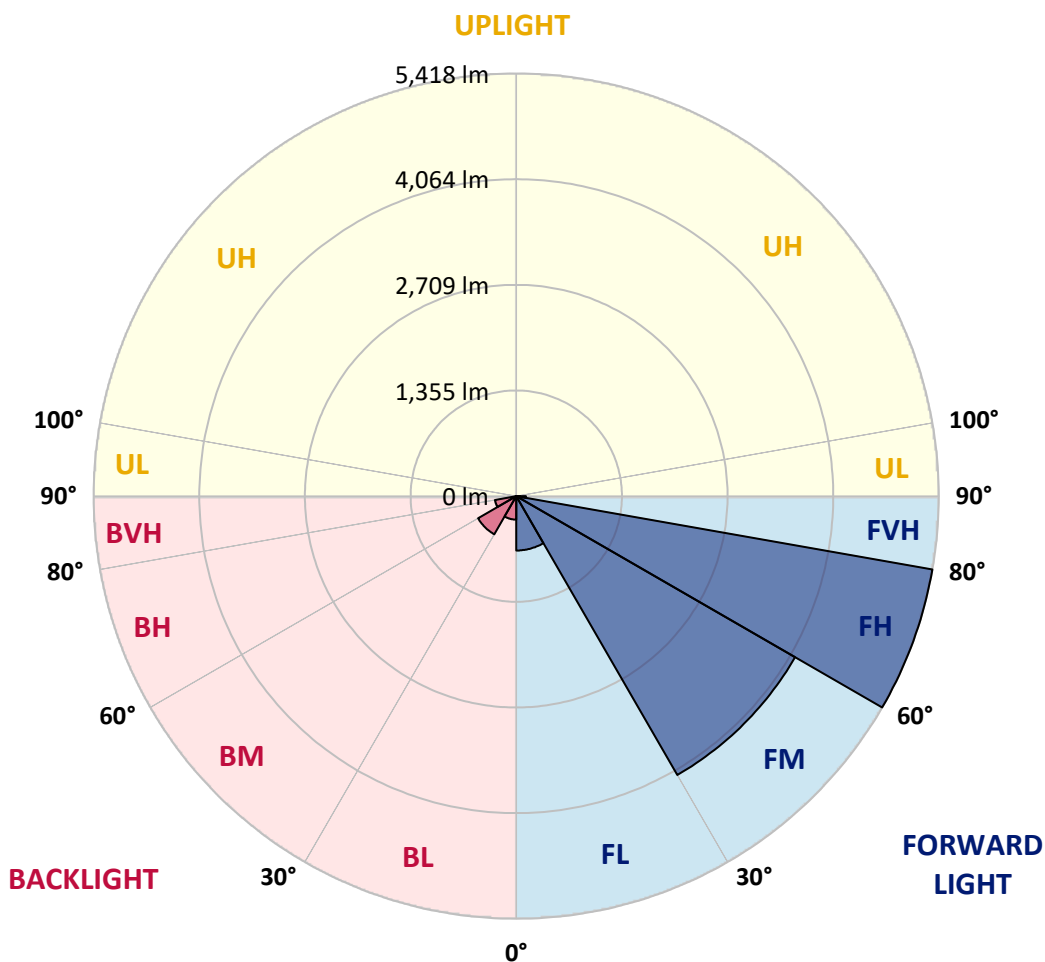
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.1	6.1			
FM (30°-60°)	4128.2	35.9			
FH (60°-80°)	5418.2	47.1			G3/7500
FVH (80°-90°)	123.1	1.1			G2/225
BL (0°-30°)	300.9	2.6	B1/500		
BM (30°-60°)	565.5	4.9	B1/1000		
BH (60°-80°)	277.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1261.0	1252.8	1239.5	1234.5	1221.3	1214.7	1204.7	1199.7	1181.5	1163.3	1151.7
5°	1415.2	1395.3	1401.9	1382.0	1338.9	1304.1	1302.5	1264.4	1222.9	1189.8	1145.1
7.5°	1570.9	1554.4	1529.5	1501.3	1453.3	1401.9	1387.0	1350.5	1292.5	1234.5	1174.9
10°	1688.6	1677.0	1655.4	1615.7	1549.4	1491.4	1493.0	1431.7	1370.4	1304.1	1222.9
12.5°	1761.5	1766.5	1735.0	1695.2	1637.2	1564.3	1562.6	1521.2	1451.6	1382.0	1285.9
15°	1834.4	1852.6	1804.6	1758.2	1683.6	1630.6	1640.5	1590.8	1522.9	1443.3	1337.3
17.5°	1846.0	1851.0	1841.0	1773.1	1718.4	1673.7	1675.3	1642.2	1590.8	1504.6	1413.5
20°	1826.1	1822.8	1811.2	1761.5	1725.0	1698.5	1700.2	1691.9	1663.7	1594.1	1469.8
22.5°	1768.1	1768.1	1753.2	1720.1	1703.5	1728.3	1708.5	1739.9	1710.1	1668.7	1566.0
25°	1721.7	1739.9	1731.7	1710.1	1716.7	1749.9	1759.8	1789.7	1784.7	1733.3	1632.2
27.5°	1771.4	1749.9	1754.9	1730.0	1754.9	1804.6	1809.5	1831.1	1829.4	1788.0	1691.9
30°	1804.6	1824.5	1786.3	1731.7	1758.2	1842.7	1839.4	1867.5	1880.8	1831.1	1748.2
32.5°	1910.6	1894.1	1862.6	1789.7	1793.0	1841.0	1855.9	1892.4	1900.7	1870.9	1802.9
35°	2127.7	2102.9	1965.3	1855.9	1839.4	1862.6	1872.5	1943.8	1958.7	1925.5	1860.9
37.5°	2462.4	2406.1	2240.4	1998.5	1923.9	1918.9	1918.9	2013.4	2069.7	1993.5	1947.1
40°	2941.3	2861.8	2682.8	2261.9	2034.9	2054.8	2074.7	2126.1	2119.4	2069.7	2059.8
42.5°	3551.2	3489.8	3296.0	2704.4	2247.0	2147.6	2131.0	2200.6	2305.0	2285.1	2278.5
45°	4059.9	4063.2	3938.9	3310.9	2613.2	2361.4	2373.0	2426.0	2601.6	2586.7	2585.1
47.5°	4431.1	4384.7	4366.4	3895.8	3146.8	2767.3	2750.8	2787.2	3015.9	3110.4	3153.5
50°	4769.1	4737.6	4694.5	4464.2	3788.1	3276.1	3259.5	3262.8	3612.5	3745.0	3851.1
52.5°	5188.4	5228.1	5085.6	4944.8	4618.3	3937.3	3919.0	3854.4	4288.6	4470.8	4596.8
55°	5705.4	5630.8	5470.1	5543.0	5412.1	4651.5	4618.3	4542.1	5059.1	5135.3	5267.9
57.5°	5819.7	5763.4	5929.1	6187.6	6313.5	5490.0	5476.7	5339.2	5707.0	5637.4	6011.9
60°	6104.7	6119.6	6350.0	6863.7	7082.4	6457.7	6393.1	6151.1	6335.1	6348.3	6747.7
62.5°	6398.0	6363.2	6878.6	7372.4	7708.8	7374.1	7352.5	6872.0	7080.8	6911.7	7440.4
65°	6182.6	6235.6	6973.1	7799.9	8520.8	8270.6	8252.3	7566.3	7680.6	7470.2	7722.1
67.5°	5417.0	5309.3	6341.7	7604.4	8938.4	9210.1	9190.2	8323.6	8018.7	7466.9	7137.1
70°	3970.4	3877.6	4719.4	6439.5	8340.2	9690.7	9770.2	8850.5	7881.1	6770.9	5506.5
72.5°	1945.4	1947.1	2644.7	4366.4	6598.6	8832.3	8872.1	8114.8	6770.9	4991.2	3118.7
75°	575.0	581.6	979.3	2141.0	4265.4	6707.9	6752.7	6159.4	4692.9	2578.4	1063.9
77.5°	210.5	210.5	324.8	803.7	2127.7	4233.9	4230.6	3781.5	2376.3	873.3	248.6
80°	109.4	114.3	169.0	328.1	921.3	2205.6	2288.4	1851.0	903.1	367.9	72.9
82.5°	44.7	49.7	92.8	169.0	442.4	773.9	846.8	725.8	392.7	256.8	33.1
85°	13.3	14.9	44.7	94.5	174.0	193.9	215.4	243.6	246.9	198.9	14.9
87.5°	1.7	1.7	18.2	31.5	38.1	41.4	48.1	48.1	125.9	139.2	8.3
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°	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1138.4	1130.1	1116.9	1087.1	1080.4	1058.9	1057.2	1037.3	1044.0	1030.7	1025.7
5°	1130.1	1111.9	1075.5	1052.3	1029.1	1014.1	1004.2	995.9	994.3	987.6	984.3
7.5°	1145.1	1120.2	1063.9	1027.4	987.6	974.4	952.8	951.2	939.6	928.0	928.0
10°	1194.8	1150.0	1088.7	1027.4	976.0	932.9	883.2	846.8	833.5	803.7	807.0
12.5°	1234.5	1194.8	1105.3	1042.3	964.4	866.7	757.3	672.8	633.0	594.9	609.8
15°	1290.9	1232.9	1136.8	1045.6	919.7	750.7	571.7	477.2	440.8	432.5	430.8
17.5°	1352.2	1290.9	1176.5	1037.3	828.5	580.0	420.9	366.2	372.8	382.8	381.1
20°	1420.1	1345.6	1206.4	1009.2	684.4	420.9	344.7	343.0	353.0	367.9	371.2
22.5°	1491.4	1426.8	1242.8	924.7	510.4	338.0	331.4	331.4	338.0	356.3	353.0
25°	1570.9	1484.8	1261.0	793.7	366.2	311.5	314.8	321.5	324.8	339.7	341.4
27.5°	1632.2	1549.4	1266.0	636.3	298.3	288.3	296.6	304.9	309.9	321.5	326.4
30°	1688.6	1630.6	1239.5	473.9	273.4	268.4	271.8	283.4	293.3	303.2	303.2
32.5°	1759.8	1677.0	1178.2	336.4	258.5	250.2	248.6	253.5	265.1	276.7	276.7
35°	1832.7	1754.9	1080.4	270.1	245.2	233.7	227.0	222.1	227.0	235.3	241.9
37.5°	1938.8	1872.5	957.8	248.6	235.3	218.7	205.5	193.9	185.6	183.9	188.9
40°	2089.6	2005.1	800.4	233.7	223.7	203.8	183.9	164.1	145.8	134.2	135.9
42.5°	2318.3	2200.6	629.7	225.4	215.4	187.3	159.1	130.9	107.7	96.1	96.1
45°	2644.7	2459.1	462.3	217.1	205.5	167.4	130.9	97.8	74.6	67.9	69.6
47.5°	3136.9	2770.7	331.4	203.8	192.2	145.8	102.7	69.6	54.7	51.4	53.0
50°	3779.8	3140.2	258.5	188.9	175.7	122.6	76.2	51.4	43.1	41.4	43.1
52.5°	4454.3	3513.0	227.0	175.7	150.8	97.8	56.3	41.4	36.5	34.8	36.5
55°	5030.9	3753.3	197.2	155.8	121.0	72.9	44.7	36.5	31.5	26.5	26.5
57.5°	5614.2	3874.3	155.8	129.3	89.5	54.7	38.1	31.5	26.5	21.5	19.9
60°	6088.2	3960.5	111.0	96.1	63.0	43.1	33.1	28.2	21.5	16.6	14.9
62.5°	6399.7	3713.5	81.2	72.9	46.4	36.5	28.2	23.2	16.6	11.6	11.6
65°	6245.6	3372.2	63.0	51.4	34.8	28.2	23.2	16.6	11.6	6.6	5.0
67.5°	5604.3	2747.5	51.4	38.1	26.5	21.5	18.2	13.3	6.6	1.7	1.7
70°	4180.8	2013.4	41.4	28.2	21.5	16.6	13.3	8.3	3.3	1.7	0.0
72.5°	2286.8	1102.0	33.1	23.2	16.6	13.3	9.9	6.6	3.3	0.0	0.0
75°	755.6	293.3	24.9	16.6	9.9	8.3	6.6	5.0	1.7	0.0	0.0
77.5°	182.3	76.2	19.9	14.9	8.3	5.0	3.3	1.7	1.7	0.0	0.0
80°	56.3	31.5	14.9	9.9	6.6	5.0	1.7	0.0	0.0	0.0	0.0
82.5°	23.2	14.9	6.6	6.6	5.0	1.7	0.0	0.0	0.0	0.0	0.0
85°	11.6	8.3	5.0	3.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	3.3	1.7	1.7	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)