

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: P483111

Luminaire Tested: **IFLD-S-SA3C-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483111
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

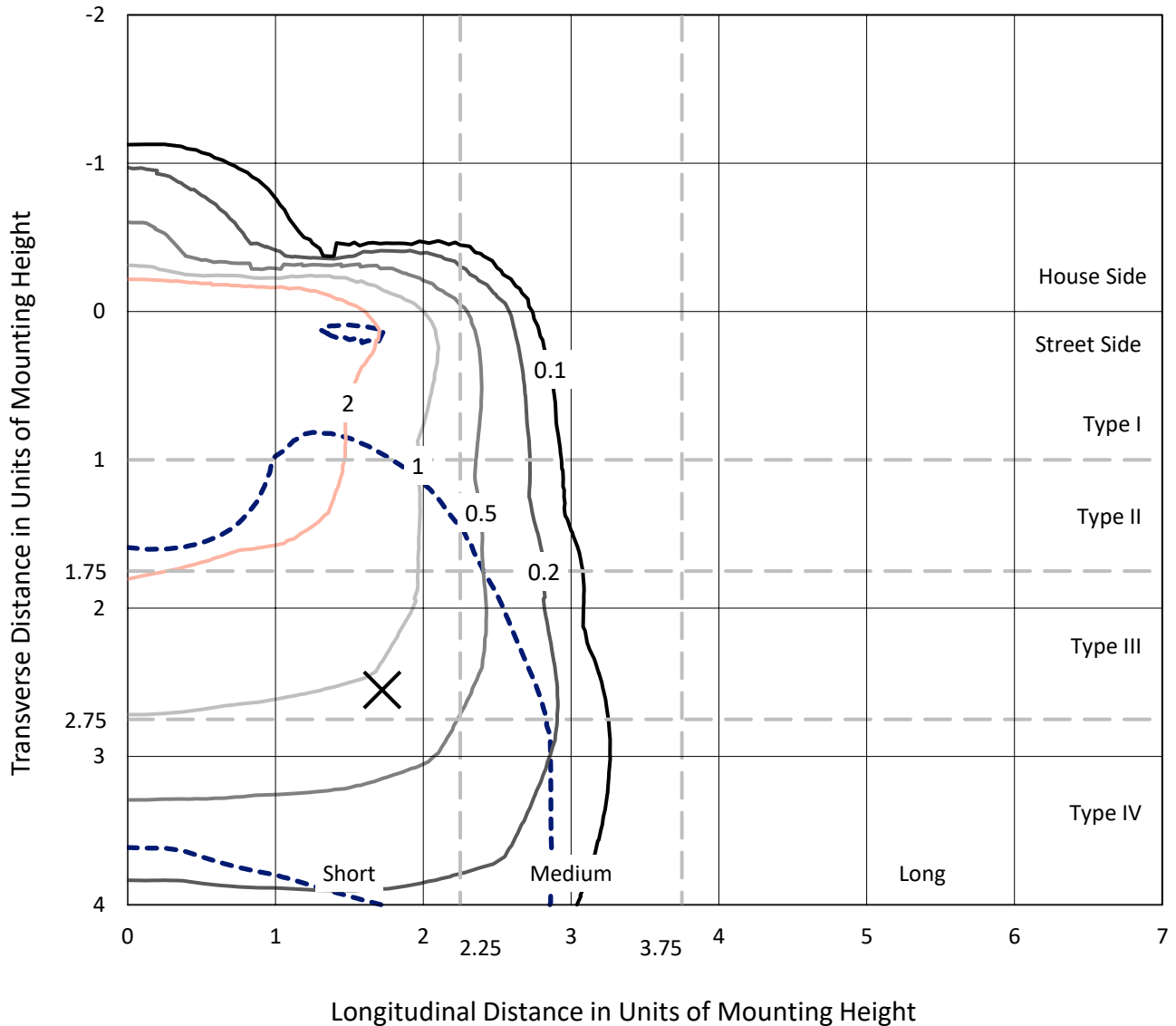
Lumens per Lamp: N/A
Luminaire Lumens: 12809.1 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

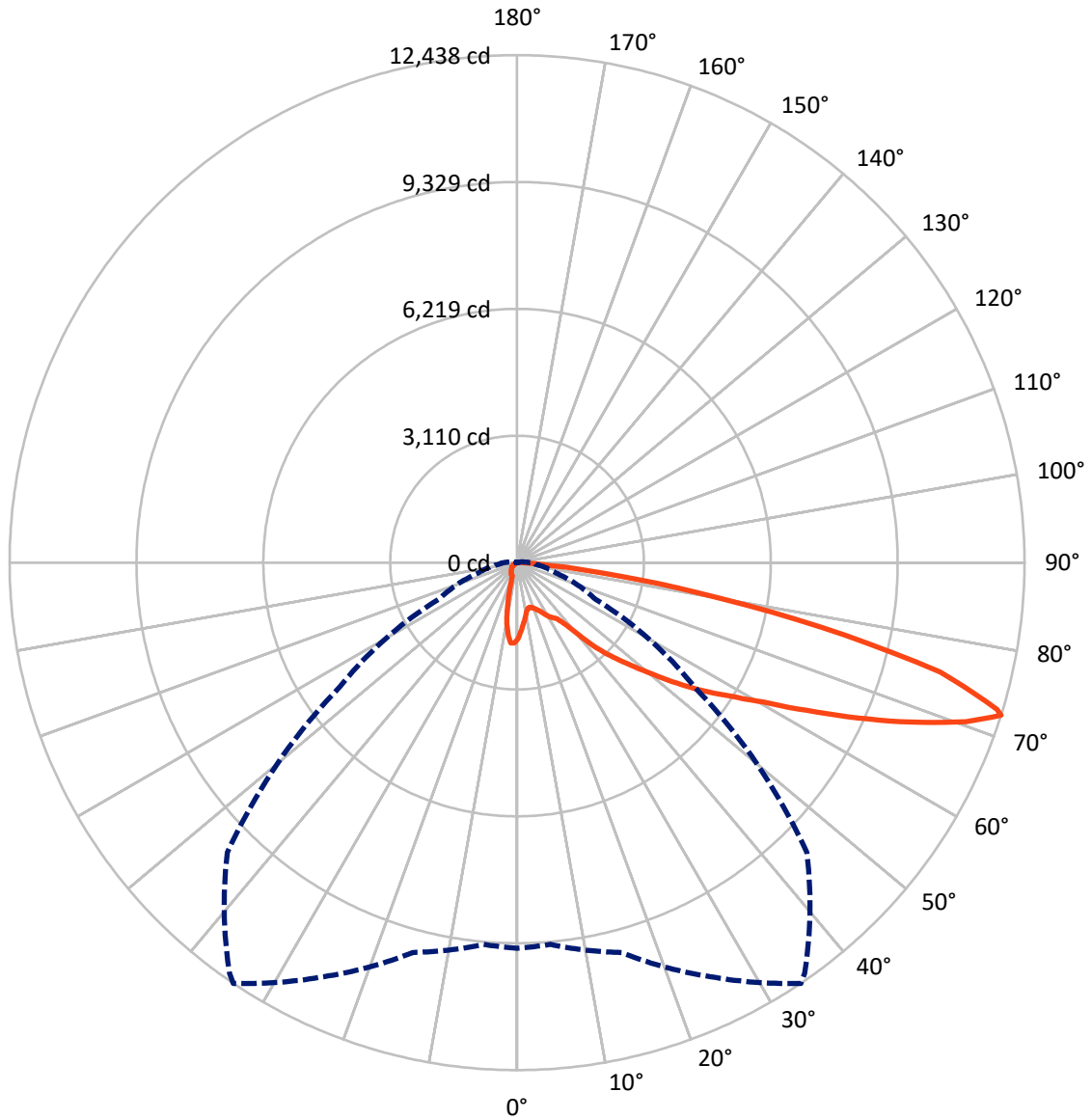
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.4	0.0	1311.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	11497.8	0.0	11497.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	12809.1	0.0	12809.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.3
10°-20°	368.3	2.9
20°-30°	555.9	4.3
30°-40°	902.1	7.0
40°-50°	1696.4	13.2
50°-60°	2773.7	21.7
60°-70°	3687.2	28.8
70°-80°	2469.3	19.3
80°-90°	193.5	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°	12809.1	100.0
0°-180°	12809.1	100.0

Coefficient of Utilization



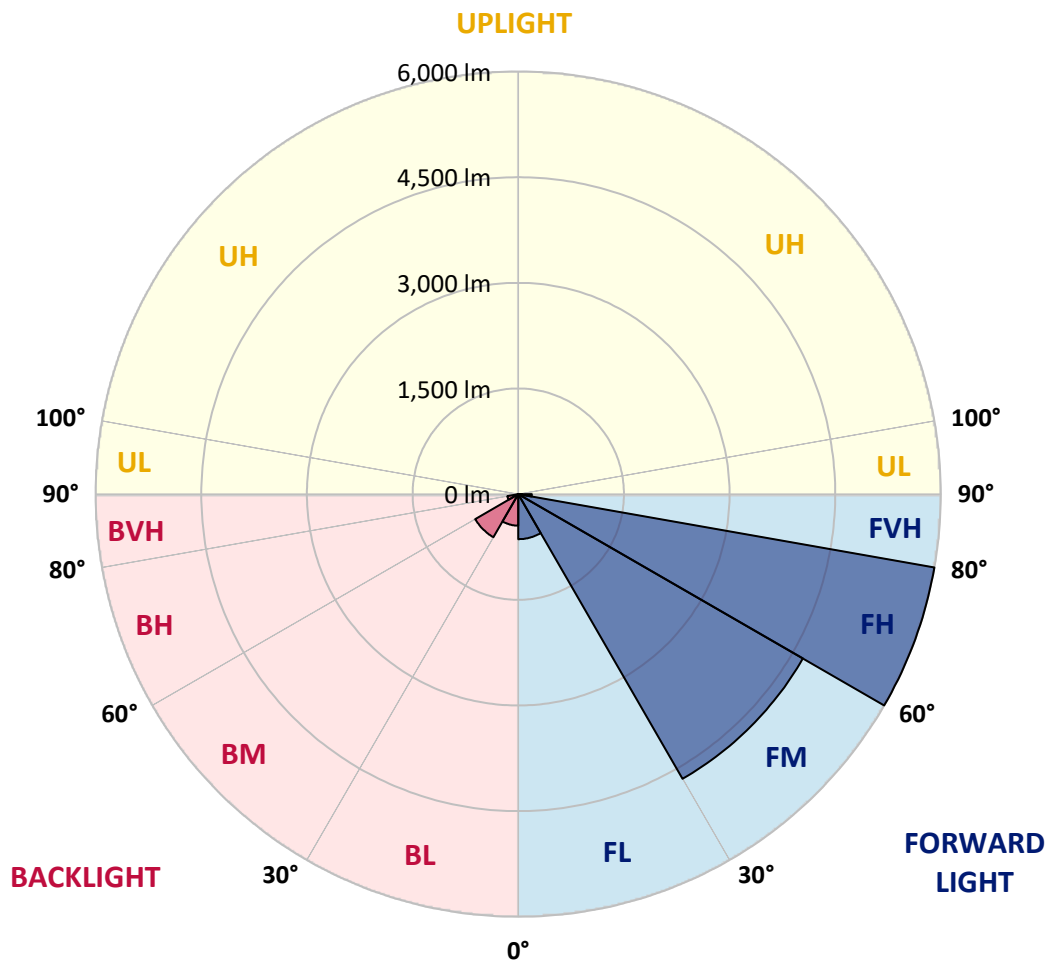
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.5	5.0			
FM (30°-60°)	4666.3	36.4			
FH (60°-80°)	5999.7	46.8			G3/7500
FVH (80°-90°)	192.3	1.5			G2/225
BL (0°-30°)	447.4	3.5	B1/500		
BM (30°-60°)	705.9	5.5	B1/1000		
BH (60°-80°)	156.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1657.3	1653.6	1664.7	1683.3	1701.8	1694.4	1729.5	1766.6	1792.5	1827.7	1870.3
5°	1448.1	1457.3	1468.4	1505.5	1529.6	1535.1	1599.9	1648.1	1727.7	1809.2	1885.1
7.5°	1257.3	1268.5	1290.7	1331.4	1381.4	1394.4	1459.2	1555.5	1659.2	1766.6	1890.7
10°	1118.5	1129.6	1153.6	1179.6	1246.2	1246.2	1335.1	1468.4	1603.6	1729.5	1892.5
12.5°	1088.8	1094.4	1092.5	1112.9	1155.5	1164.8	1251.8	1398.1	1555.5	1716.6	1922.1
15°	1124.0	1127.7	1109.2	1098.1	1135.1	1144.4	1225.9	1355.5	1524.0	1724.0	1970.3
17.5°	1194.4	1181.4	1144.4	1127.7	1159.2	1164.8	1240.7	1353.6	1520.3	1744.4	2025.8
20°	1235.1	1249.9	1185.1	1153.6	1198.1	1205.5	1287.0	1383.3	1538.8	1779.5	2103.6
22.5°	1307.3	1314.8	1227.7	1207.4	1249.9	1249.9	1342.5	1442.5	1583.3	1837.0	2196.2
25°	1409.2	1399.9	1298.1	1277.7	1318.5	1335.1	1427.7	1537.0	1651.8	1890.7	2281.4
27.5°	1488.8	1494.4	1411.0	1357.3	1425.9	1437.0	1537.0	1638.8	1703.6	1935.1	2385.1
30°	1607.3	1596.2	1507.3	1446.2	1531.4	1533.3	1629.6	1735.1	1803.6	2014.7	2540.6
32.5°	1748.1	1725.8	1624.0	1537.0	1605.5	1622.1	1720.3	1874.0	1959.2	2164.7	2781.3
35°	2046.2	1992.5	1825.8	1690.7	1696.2	1703.6	1855.5	2075.8	2174.0	2355.4	3103.6
37.5°	2481.4	2459.1	2270.3	2012.9	1914.7	1892.5	2062.9	2342.5	2464.7	2607.3	3522.1
40°	2912.8	2881.3	2705.4	2511.0	2333.2	2288.8	2374.0	2696.2	2807.3	2957.3	3951.7
42.5°	3392.4	3336.9	3129.5	2972.1	2861.0	2812.8	2779.5	3140.6	3266.5	3368.4	4372.0
45°	3877.6	3786.9	3486.9	3366.5	3307.3	3281.3	3277.6	3699.8	3775.7	3796.1	4838.7
47.5°	4303.5	4205.4	3933.1	3798.0	3753.5	3746.1	3953.5	4344.2	4285.0	4231.3	5359.0
50°	4631.3	4568.3	4372.0	4323.9	4290.5	4277.6	4762.7	5007.2	4733.1	4638.7	5816.4
52.5°	5138.6	4997.9	4775.7	4792.4	4909.0	4910.9	5583.1	5636.8	5105.3	4918.3	6247.9
55°	5544.2	5451.6	5270.1	5246.0	5553.4	5586.8	6318.2	6114.5	5312.7	5184.9	6407.1
57.5°	6021.9	5979.3	5847.9	5851.6	6173.8	6244.1	6971.9	6518.2	5484.9	5357.2	6431.2
60°	6712.6	6590.4	6521.9	6553.4	6933.0	7001.5	7605.2	6808.9	5568.3	5470.1	6371.9
62.5°	7475.6	7333.0	7258.9	7420.0	7973.7	7984.8	8086.7	7066.3	5516.4	5499.7	5990.5
65°	8394.0	8253.3	8194.1	8518.1	9175.5	9134.8	8762.5	7175.6	5351.6	5201.6	4988.7
67.5°	9308.8	9223.6	9101.4	9618.1	10436.5	10436.5	9464.4	7134.8	4920.1	4175.7	3262.8
70°	9742.1	9801.4	9995.8	10806.9	11675.4	11586.5	10156.9	6666.4	3662.8	2242.5	1283.3
72°	9453.3	9392.1	9894.0	11195.8	12438.3	12292.0	10040.3	5299.7	2116.6	983.3	446.3
72.5°	8957.0	9014.4	9705.1	11142.1	12295.7	12416.1	9755.1	4888.7	1740.7	783.3	337.0
75°	5492.3	5590.5	7244.1	9460.7	10714.3	10579.1	7545.9	2329.5	668.5	333.3	120.4
77.5°	2005.5	2086.9	3514.6	5953.4	7620.0	7534.8	4366.5	827.7	362.9	248.1	61.1
80°	522.2	564.8	1194.4	2746.2	4481.3	4486.8	1827.7	331.5	246.3	203.7	37.0
82.5°	103.7	114.8	366.6	1068.5	2094.3	2066.6	577.8	177.8	185.2	166.7	25.9
85°	13.0	16.7	77.8	362.9	677.7	607.4	142.6	88.9	137.0	129.6	16.7
87.5°	1.9	1.9	18.5	83.3	142.6	138.9	29.6	27.8	61.1	79.6	9.3
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°	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1894.4	1901.8	1927.7	1949.9	1975.8	1983.2	1972.1	1990.6	1964.7	1979.5	1983.2
5°	1898.1	1940.6	1988.8	2020.3	2012.9	1994.4	1979.5	1929.5	1894.4	1881.4	1909.2
7.5°	1924.0	1972.1	2024.0	2024.0	1983.2	1886.9	1794.4	1705.5	1631.4	1594.4	1625.8
10°	1957.3	2007.3	2061.0	1990.6	1838.8	1662.9	1531.4	1364.8	1251.8	1192.5	1198.1
12.5°	2001.8	2072.1	2090.6	1927.7	1675.8	1414.7	1175.9	944.4	837.0	751.8	753.7
15°	2059.2	2127.7	2072.1	1790.7	1468.4	1083.3	796.3	575.9	490.7	446.3	446.3
17.5°	2135.1	2186.9	2066.6	1664.7	1188.8	740.7	488.9	388.9	370.4	362.9	362.9
20°	2224.0	2262.9	2012.9	1468.4	883.3	475.9	359.2	348.1	350.0	346.3	346.3
22.5°	2324.0	2336.9	1951.8	1240.7	598.1	351.8	335.2	337.0	338.9	335.2	337.0
25°	2429.5	2394.3	1862.9	974.0	398.1	320.4	324.1	327.8	329.6	331.5	331.5
27.5°	2548.0	2477.7	1738.8	712.9	311.1	301.8	312.9	324.1	325.9	325.9	324.1
30°	2722.1	2605.4	1618.4	483.3	274.1	281.5	300.0	312.9	322.2	322.2	320.4
32.5°	2942.5	2738.8	1449.9	329.6	253.7	257.4	272.2	298.1	318.5	320.4	314.8
35°	3248.0	2899.9	1274.0	263.0	238.9	240.7	250.0	270.4	305.5	316.7	314.8
37.5°	3570.2	3083.2	1055.5	237.0	227.8	225.9	231.5	248.1	279.6	307.4	309.2
40°	3912.8	3275.8	825.9	224.1	218.5	214.8	216.7	224.1	248.1	283.3	290.7
42.5°	4235.0	3449.8	620.3	211.1	209.2	205.5	205.5	207.4	220.4	244.4	248.1
45°	4583.1	3592.4	472.2	201.8	196.3	198.1	190.7	187.0	196.3	198.1	196.3
47.5°	4909.0	3735.0	377.8	190.7	185.2	185.2	175.9	168.5	168.5	151.8	150.0
50°	5214.6	3812.8	301.8	175.9	174.1	172.2	159.3	146.3	135.2	114.8	111.1
52.5°	5468.3	3809.1	233.3	157.4	163.0	157.4	137.0	118.5	101.8	83.3	79.6
55°	5544.2	3631.3	175.9	129.6	138.9	131.5	109.3	92.6	74.1	59.3	57.4
57.5°	5479.4	3361.0	133.3	100.0	107.4	100.0	83.3	68.5	51.8	40.7	37.0
60°	5262.7	3044.3	103.7	77.8	81.5	75.9	63.0	51.8	37.0	25.9	22.2
62.5°	4851.6	2648.0	79.6	61.1	59.3	59.3	48.1	38.9	25.9	14.8	13.0
65°	3981.3	2064.7	61.1	42.6	42.6	42.6	37.0	27.8	16.7	7.4	3.7
67.5°	2499.9	1201.8	50.0	33.3	31.5	31.5	25.9	18.5	9.3	1.9	0.0
70°	940.7	440.7	38.9	25.9	24.1	24.1	18.5	11.1	5.6	0.0	0.0
72°	324.1	168.5	31.5	18.5	18.5	16.7	13.0	9.3	3.7	0.0	0.0
72.5°	266.7	135.2	29.6	18.5	16.7	16.7	13.0	9.3	3.7	0.0	0.0
75°	96.3	55.6	20.4	13.0	11.1	11.1	9.3	5.6	1.9	0.0	0.0
77.5°	48.1	35.2	16.7	11.1	9.3	5.6	5.6	3.7	1.9	0.0	0.0
80°	29.6	22.2	9.3	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0
82.5°	20.4	13.0	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.0	5.6	3.7	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	3.7	1.9	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)