

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: P483384

Luminaire Tested: **IFLD-S-SA3C-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483384
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

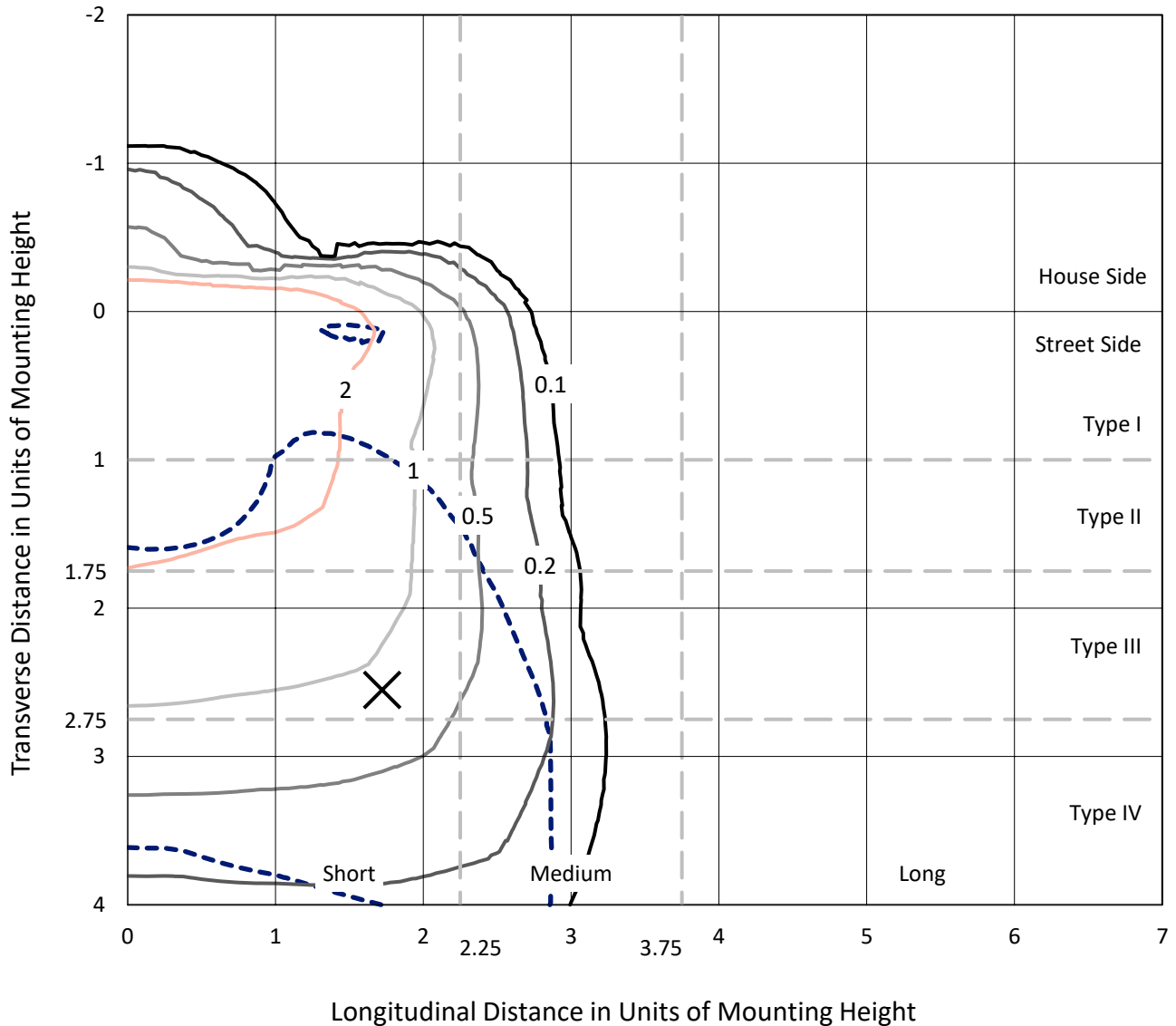
Lumens per Lamp: N/A
Luminaire Lumens: 12170.4 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

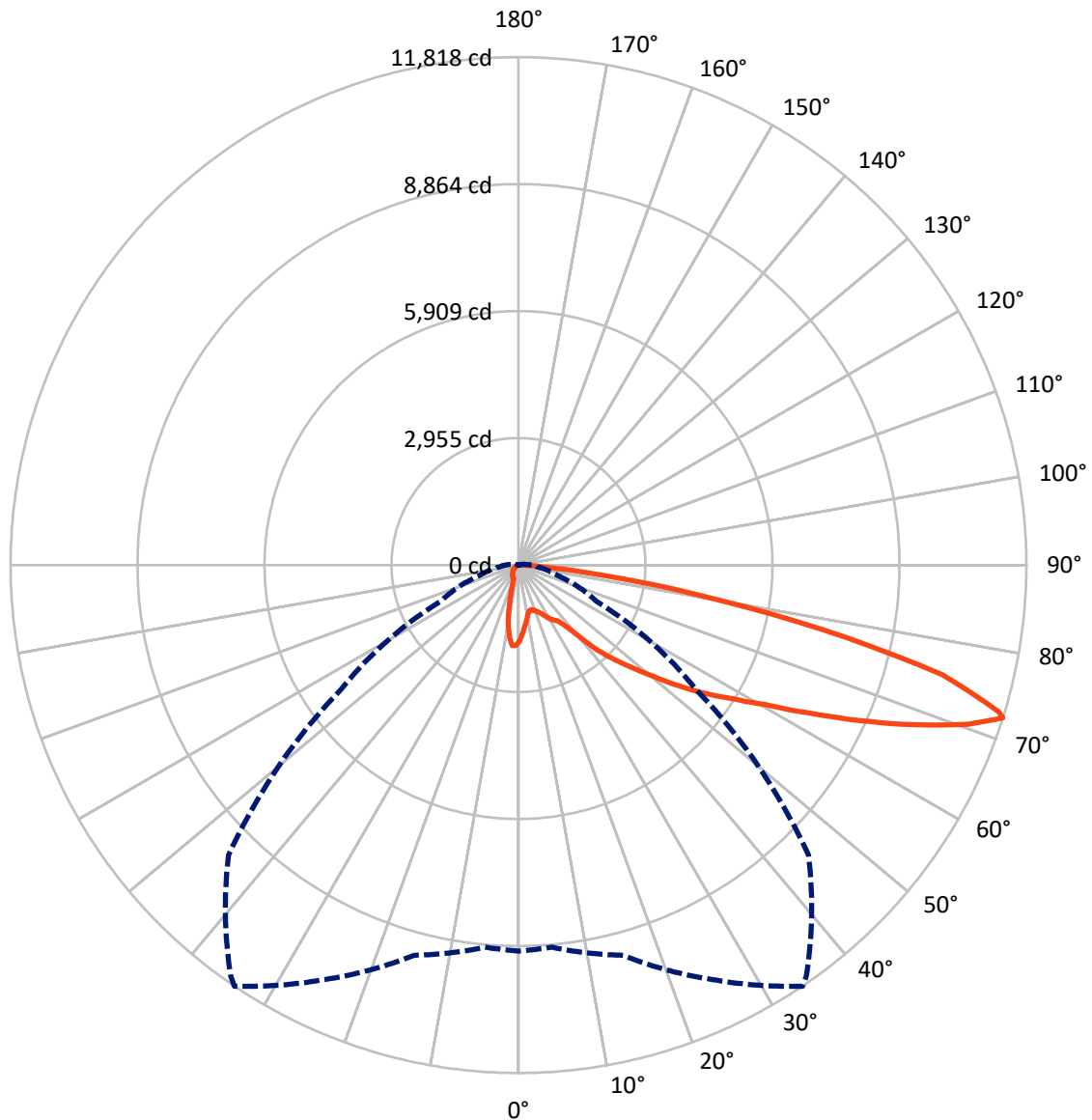
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	1246.0	0.0	1246.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10924.5	0.0	10924.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	12170.4	0.0	12170.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.3
10°-20°	349.9	2.9
20°-30°	528.2	4.3
30°-40°	857.2	7.0
40°-50°	1611.8	13.2
50°-60°	2635.4	21.7
60°-70°	3503.4	28.8
70°-80°	2346.2	19.3
80°-90°	183.9	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°	12170.4	100.0
0°-180°	12170.4	100.0

Coefficient of Utilization



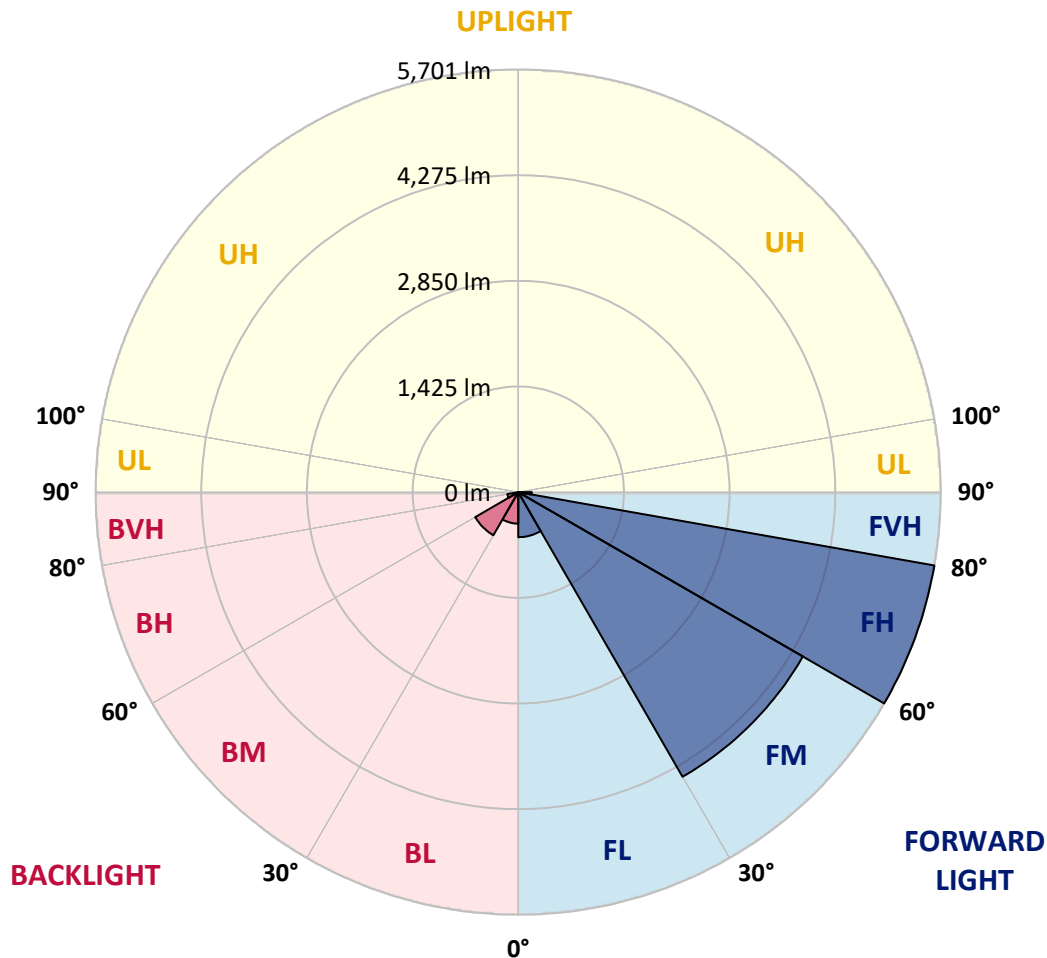
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.6	5.0			
FM (30°-60°)	4433.7	36.4			
FH (60°-80°)	5700.5	46.8			G3/7500
FVH (80°-90°)	182.7	1.5			G2/225
BL (0°-30°)	425.1	3.5	B1/500		
BM (30°-60°)	670.7	5.5	B1/1000		
BH (60°-80°)	149.0	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°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1574.7	1571.2	1581.7	1599.3	1616.9	1609.9	1643.3	1678.5	1703.1	1736.6	1777.0
5°	1375.9	1384.7	1395.2	1430.4	1453.3	1458.6	1520.1	1565.9	1641.5	1719.0	1791.1
7.5°	1194.7	1205.2	1226.3	1265.0	1312.5	1324.9	1386.4	1477.9	1576.4	1678.5	1796.4
10°	1062.7	1073.3	1096.1	1120.8	1184.1	1184.1	1268.5	1395.2	1523.7	1643.3	1798.1
12.5°	1034.5	1039.8	1038.1	1057.4	1097.9	1106.7	1189.4	1328.4	1477.9	1631.0	1826.3
15°	1068.0	1071.5	1053.9	1043.3	1078.5	1087.3	1164.7	1287.9	1448.0	1638.0	1872.0
17.5°	1134.8	1122.5	1087.3	1071.5	1101.4	1106.7	1178.8	1286.1	1444.5	1657.4	1924.8
20°	1173.5	1187.6	1126.0	1096.1	1138.4	1145.4	1222.8	1314.3	1462.1	1690.8	1998.7
22.5°	1242.2	1249.2	1166.5	1147.1	1187.6	1187.6	1275.6	1370.6	1504.3	1745.4	2086.7
25°	1338.9	1330.1	1233.4	1214.0	1252.7	1268.5	1356.5	1460.3	1569.4	1796.4	2167.6
27.5°	1414.6	1419.9	1340.7	1289.7	1354.8	1365.3	1460.3	1557.1	1618.7	1838.6	2266.1
30°	1527.2	1516.6	1432.2	1374.1	1455.0	1456.8	1548.3	1648.6	1713.7	1914.3	2413.9
32.5°	1660.9	1639.8	1543.0	1460.3	1525.4	1541.3	1634.5	1780.5	1861.5	2056.8	2642.7
35°	1944.2	1893.1	1734.8	1606.4	1611.6	1618.7	1762.9	1972.3	2065.6	2238.0	2948.8
37.5°	2357.6	2336.5	2157.1	1912.5	1819.3	1798.1	1960.0	2225.7	2341.8	2477.3	3346.4
40°	2767.6	2737.7	2570.5	2385.8	2216.9	2174.7	2255.6	2561.7	2667.3	2809.8	3754.6
42.5°	3223.3	3170.5	2973.4	2823.9	2718.3	2672.6	2640.9	2984.0	3103.6	3200.4	4154.0
45°	3684.2	3598.0	3313.0	3198.6	3142.3	3117.7	3114.2	3515.3	3587.5	3606.8	4597.4
47.5°	4088.9	3995.7	3737.0	3608.6	3566.4	3559.3	3756.4	4127.6	4071.3	4020.3	5091.8
50°	4400.3	4340.5	4154.0	4108.3	4076.6	4064.3	4525.3	4757.5	4497.1	4407.4	5526.4
52.5°	4882.4	4748.7	4537.6	4553.4	4664.3	4666.0	5304.7	5355.7	4850.8	4673.0	5936.3
55°	5267.7	5179.8	5007.3	4984.5	5276.5	5308.2	6003.2	5809.6	5047.8	4926.4	6087.6
57.5°	5721.7	5681.2	5556.3	5559.8	5865.9	5932.8	6624.3	6193.2	5211.4	5090.0	6110.5
60°	6377.9	6261.8	6196.7	6226.6	6587.3	6652.4	7226.0	6469.4	5290.6	5197.4	6054.2
62.5°	7102.8	6967.3	6897.0	7050.0	7576.1	7586.7	7683.4	6714.0	5241.3	5225.5	5691.8
65°	7975.5	7841.8	7785.5	8093.4	8718.0	8679.3	8325.6	6817.8	5084.8	4942.2	4739.9
67.5°	8844.7	8763.7	8647.6	9138.5	9916.2	9916.2	8992.5	6779.1	4674.8	3967.5	3100.1
70°	9256.4	9312.7	9497.4	10268.0	11093.2	11008.8	9650.5	6334.0	3480.2	2130.7	1219.3
72°	8981.9	8923.8	9400.6	10637.5	11818.1	11679.1	9539.6	5035.5	2011.0	934.3	424.0
72.5°	8510.4	8564.9	9221.2	10586.5	11682.6	11797.0	9268.7	4644.9	1653.9	744.2	320.2
75°	5218.5	5311.7	6882.9	8988.9	10180.1	10051.6	7169.7	2213.4	635.2	316.7	114.4
77.5°	1905.5	1982.9	3339.4	5656.6	7240.1	7159.1	4148.7	786.5	344.8	235.8	58.1
80°	496.2	536.6	1134.8	2609.2	4257.8	4263.1	1736.6	314.9	234.0	193.5	35.2
82.5°	98.5	109.1	348.4	1015.2	1989.9	1963.5	548.9	168.9	175.9	158.3	24.6
85°	12.3	15.8	73.9	344.8	644.0	577.1	135.5	84.5	130.2	123.2	15.8
87.5°	1.8	1.8	17.6	79.2	135.5	132.0	28.2	26.4	58.1	75.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1799.9	1806.9	1831.6	1852.7	1877.3	1884.4	1873.8	1891.4	1866.8	1880.8	1884.4
5°	1803.4	1843.9	1889.6	1919.5	1912.5	1894.9	1880.8	1833.3	1799.9	1787.6	1814.0
7.5°	1828.0	1873.8	1923.1	1923.1	1884.4	1792.9	1704.9	1620.4	1550.1	1514.9	1544.8
10°	1859.7	1907.2	1958.2	1891.4	1747.1	1580.0	1455.0	1296.7	1189.4	1133.1	1138.4
12.5°	1901.9	1968.8	1986.4	1831.6	1592.3	1344.2	1117.2	897.3	795.3	714.3	716.1
15°	1956.5	2021.6	1968.8	1701.4	1395.2	1029.3	756.6	547.2	466.2	424.0	424.0
17.5°	2028.6	2077.9	1963.5	1581.7	1129.6	703.8	464.5	369.5	351.9	344.8	344.8
20°	2113.1	2150.0	1912.5	1395.2	839.2	452.2	341.3	330.8	332.5	329.0	329.0
22.5°	2208.1	2220.4	1854.4	1178.8	568.3	334.3	318.5	320.2	322.0	318.5	320.2
25°	2308.4	2274.9	1770.0	925.5	378.3	304.4	307.9	311.4	313.2	314.9	314.9
27.5°	2421.0	2354.1	1652.1	677.4	295.6	286.8	297.3	307.9	309.7	309.7	307.9
30°	2586.4	2475.5	1537.7	459.2	260.4	267.4	285.0	297.3	306.1	306.1	304.4
32.5°	2795.7	2602.2	1377.6	313.2	241.0	244.6	258.6	283.3	302.6	304.4	299.1
35°	3086.0	2755.3	1210.5	249.8	227.0	228.7	237.5	256.9	290.3	300.9	299.1
37.5°	3392.2	2929.5	1002.9	225.2	216.4	214.7	219.9	235.8	265.7	292.1	293.8
40°	3717.7	3112.4	784.7	212.9	207.6	204.1	205.9	212.9	235.8	269.2	276.2
42.5°	4023.8	3277.8	589.4	200.6	198.8	195.3	195.3	197.1	209.4	232.2	235.8
45°	4354.6	3413.3	448.7	191.8	186.5	188.3	181.2	177.7	186.5	188.3	186.5
47.5°	4664.3	3548.8	358.9	181.2	175.9	175.9	167.1	160.1	160.1	144.3	142.5
50°	4954.6	3622.7	286.8	167.1	165.4	163.6	151.3	139.0	128.4	109.1	105.6
52.5°	5195.6	3619.1	221.7	149.6	154.8	149.6	130.2	112.6	96.8	79.2	75.7
55°	5267.7	3450.2	167.1	123.2	132.0	124.9	103.8	88.0	70.4	56.3	54.5
57.5°	5206.2	3193.4	126.7	95.0	102.0	95.0	79.2	65.1	49.3	38.7	35.2
60°	5000.3	2892.5	98.5	73.9	77.4	72.1	59.8	49.3	35.2	24.6	21.1
62.5°	4609.7	2516.0	75.7	58.1	56.3	56.3	45.7	36.9	24.6	14.1	12.3
65°	3782.8	1961.8	58.1	40.5	40.5	40.5	35.2	26.4	15.8	7.0	3.5
67.5°	2375.2	1141.9	47.5	31.7	29.9	29.9	24.6	17.6	8.8	1.8	0.0
70°	893.8	418.7	36.9	24.6	22.9	22.9	17.6	10.6	5.3	0.0	0.0
72°	307.9	160.1	29.9	17.6	17.6	15.8	12.3	8.8	3.5	0.0	0.0
72.5°	253.4	128.4	28.2	17.6	15.8	15.8	12.3	8.8	3.5	0.0	0.0
75°	91.5	52.8	19.4	12.3	10.6	10.6	8.8	5.3	1.8	0.0	0.0
77.5°	45.7	33.4	15.8	10.6	8.8	5.3	5.3	3.5	1.8	0.0	0.0
80°	28.2	21.1	8.8	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	19.4	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)