

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: P483091

Luminaire Tested: **IFLD-M-SA4B-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

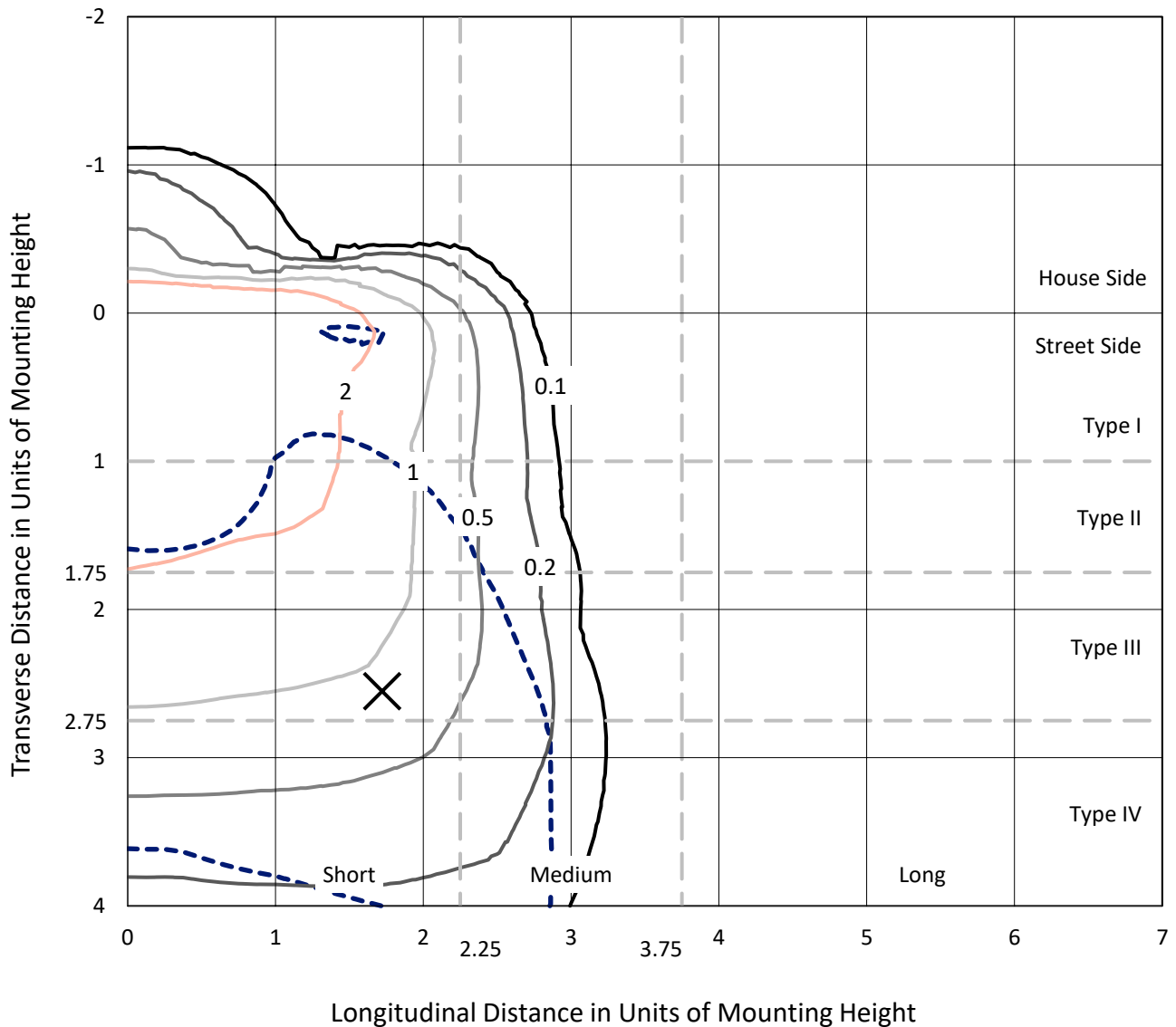
Lumens per Lamp: N/A
Luminaire Lumens: 12164.9 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

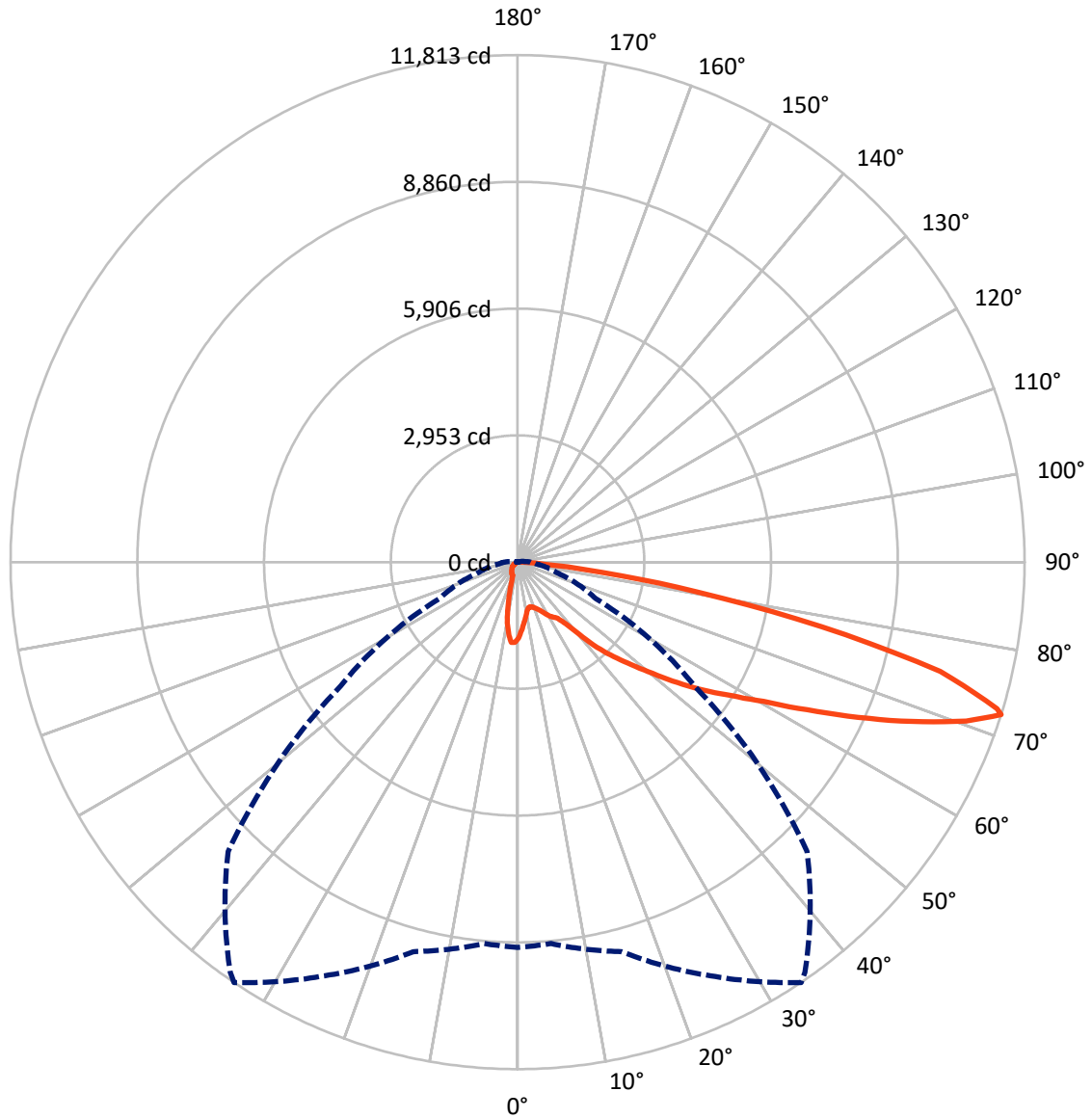
× Max cd
 - - - 1/2 Max cd



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	1245.4	0.0	1245.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10919.5	0.0	10919.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	12164.9	0.0	12164.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.3
10°-20°	349.8	2.9
20°-30°	527.9	4.3
30°-40°	856.8	7.0
40°-50°	1611.1	13.2
50°-60°	2634.2	21.7
60°-70°	3501.8	28.8
70°-80°	2345.1	19.3
80°-90°	183.8	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°	12164.9	100.0
0°-180°	12164.9	100.0



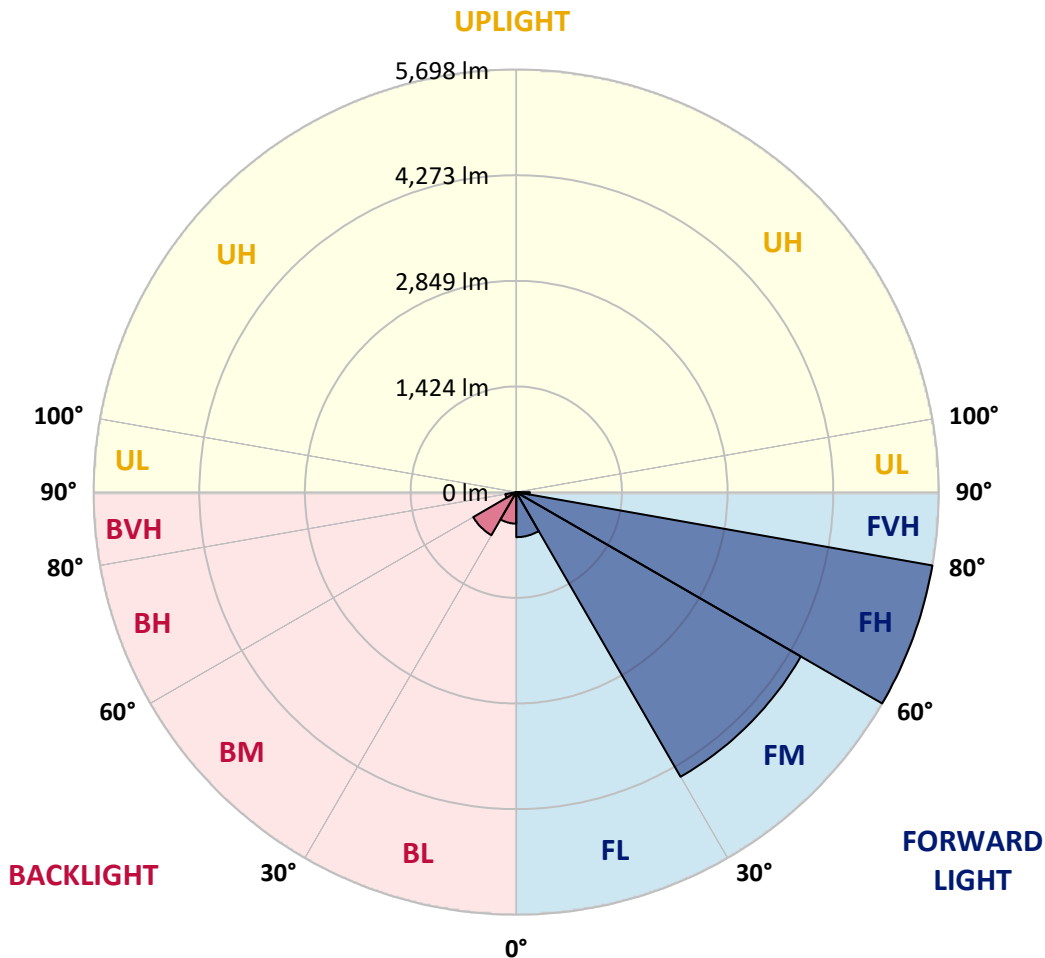
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.3	5.0			
FM (30°-60°)	4431.6	36.4			
FH (60°-80°)	5697.9	46.8			G3/7500
FVH (80°-90°)	182.6	1.5			G2/225
BL (0°-30°)	424.9	3.5	B1/500		
BM (30°-60°)	670.4	5.5	B1/1000		
BH (60°-80°)	148.9	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°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1574.0	1570.5	1581.0	1598.6	1616.2	1609.1	1642.6	1677.7	1702.4	1735.8	1776.2
5°	1375.2	1384.0	1394.6	1429.8	1452.6	1457.9	1519.5	1565.2	1640.8	1718.2	1790.3
7.5°	1194.1	1204.7	1225.8	1264.5	1311.9	1324.2	1385.8	1477.2	1575.7	1677.7	1795.6
10°	1062.2	1072.8	1095.6	1120.2	1183.6	1183.6	1268.0	1394.6	1523.0	1642.6	1797.3
12.5°	1034.1	1039.3	1037.6	1056.9	1097.4	1106.2	1188.8	1327.8	1477.2	1630.2	1825.5
15°	1067.5	1071.0	1053.4	1042.9	1078.0	1086.8	1164.2	1287.3	1447.4	1637.3	1871.2
17.5°	1134.3	1122.0	1086.8	1071.0	1100.9	1106.2	1178.3	1285.6	1443.8	1656.6	1923.9
20°	1173.0	1187.1	1125.5	1095.6	1137.8	1144.9	1222.2	1313.7	1461.4	1690.0	1997.8
22.5°	1241.6	1248.6	1166.0	1146.6	1187.1	1187.1	1275.0	1370.0	1503.6	1744.6	2085.7
25°	1338.3	1329.5	1232.8	1213.5	1252.1	1268.0	1355.9	1459.7	1568.7	1795.6	2166.6
27.5°	1413.9	1419.2	1340.1	1289.1	1354.1	1364.7	1459.7	1556.4	1617.9	1837.8	2265.1
30°	1526.5	1515.9	1431.5	1373.5	1454.4	1456.1	1547.6	1647.8	1712.9	1913.4	2412.8
32.5°	1660.1	1639.0	1542.3	1459.7	1524.7	1540.6	1633.8	1779.7	1860.6	2055.8	2641.5
35°	1943.3	1892.3	1734.0	1605.6	1610.9	1617.9	1762.1	1971.4	2064.6	2237.0	2947.5
37.5°	2356.6	2335.5	2156.1	1911.6	1818.4	1797.3	1959.1	2224.7	2340.7	2476.2	3344.9
40°	2766.3	2736.4	2569.4	2384.7	2215.9	2173.7	2254.6	2560.6	2666.1	2808.5	3752.9
42.5°	3221.8	3169.1	2972.1	2822.6	2717.1	2671.4	2639.7	2982.6	3102.2	3198.9	4152.1
45°	3682.6	3596.4	3311.5	3197.2	3140.9	3116.3	3112.8	3513.7	3585.8	3605.2	4595.3
47.5°	4087.1	3993.8	3735.3	3606.9	3564.7	3557.7	3754.7	4125.7	4069.5	4018.5	5089.5
50°	4398.3	4338.5	4152.1	4106.4	4074.7	4062.4	4523.2	4755.3	4495.1	4405.4	5523.9
52.5°	4880.2	4746.5	4535.5	4551.3	4662.1	4663.9	5302.3	5353.3	4848.5	4670.9	5933.6
55°	5265.3	5177.4	5005.1	4982.2	5274.1	5305.8	6000.4	5807.0	5045.5	4924.2	6084.9
57.5°	5719.1	5678.6	5553.8	5557.3	5863.3	5930.1	6621.2	6190.4	5209.1	5087.7	6107.7
60°	6375.0	6259.0	6193.9	6223.8	6584.3	6649.4	7222.7	6466.5	5288.2	5195.0	6051.4
62.5°	7099.6	6964.2	6893.8	7046.8	7572.7	7583.2	7679.9	6710.9	5239.0	5223.1	5689.2
65°	7971.9	7838.2	7781.9	8089.7	8714.0	8675.3	8321.8	6814.7	5082.4	4940.0	4737.7
67.5°	8840.6	8759.7	8643.7	9134.3	9911.6	9911.6	8988.4	6776.0	4672.7	3965.7	3098.7
70°	9252.1	9308.4	9493.1	10263.4	11088.2	11003.7	9646.1	6331.1	3478.6	2129.7	1218.7
72°	8977.8	8919.8	9396.4	10632.7	11812.7	11673.8	9535.3	5033.2	2010.1	933.8	423.8
72.5°	8506.5	8561.0	9217.0	10581.7	11677.3	11791.6	9264.5	4642.8	1653.1	743.9	320.1
75°	5216.1	5309.3	6879.8	8984.8	10175.4	10047.0	7166.4	2212.4	634.9	316.6	114.3
77.5°	1904.6	1982.0	3337.9	5654.0	7236.8	7155.9	4146.8	786.1	344.7	235.7	58.0
80°	495.9	536.4	1134.3	2608.0	4255.9	4261.2	1735.8	314.8	233.9	193.4	35.2
82.5°	98.5	109.0	348.2	1014.7	1989.0	1962.6	548.7	168.8	175.9	158.3	24.6
85°	12.3	15.8	73.9	344.7	643.7	576.8	135.4	84.4	130.1	123.1	15.8
87.5°	1.8	1.8	17.6	79.1	135.4	131.9	28.1	26.4	58.0	75.6	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°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1799.1	1806.1	1830.7	1851.8	1876.5	1883.5	1872.9	1890.5	1865.9	1880.0	1883.5
5°	1802.6	1843.0	1888.8	1918.7	1911.6	1894.0	1880.0	1832.5	1799.1	1786.8	1813.1
7.5°	1827.2	1872.9	1922.2	1922.2	1883.5	1792.0	1704.1	1619.7	1549.4	1514.2	1544.1
10°	1858.9	1906.4	1957.4	1890.5	1746.3	1579.2	1454.4	1296.1	1188.8	1132.6	1137.8
12.5°	1901.1	1967.9	1985.5	1830.7	1591.6	1343.6	1116.7	896.9	794.9	714.0	715.8
15°	1955.6	2020.7	1967.9	1700.6	1394.6	1028.8	756.2	546.9	466.0	423.8	423.8
17.5°	2027.7	2076.9	1962.6	1581.0	1129.0	703.5	464.3	369.3	351.7	344.7	344.7
20°	2112.1	2149.0	1911.6	1394.6	838.9	452.0	341.2	330.6	332.4	328.9	328.9
22.5°	2207.1	2219.4	1853.6	1178.3	568.0	334.1	318.3	320.1	321.8	318.3	320.1
25°	2307.3	2273.9	1769.2	925.0	378.1	304.2	307.8	311.3	313.0	314.8	314.8
27.5°	2419.9	2353.0	1651.4	677.1	295.4	286.7	297.2	307.8	309.5	309.5	307.8
30°	2585.2	2474.4	1537.0	459.0	260.3	267.3	284.9	297.2	306.0	306.0	304.2
32.5°	2794.5	2601.0	1377.0	313.0	240.9	244.4	258.5	283.1	302.5	304.2	299.0
35°	3084.6	2754.0	1209.9	249.7	226.9	228.6	237.4	256.8	290.2	300.7	299.0
37.5°	3390.6	2928.1	1002.4	225.1	216.3	214.6	219.8	235.7	265.6	291.9	293.7
40°	3716.0	3111.0	784.3	212.8	207.5	204.0	205.8	212.8	235.7	269.1	276.1
42.5°	4022.0	3276.3	589.1	200.5	198.7	195.2	195.2	197.0	209.3	232.1	235.7
45°	4352.6	3411.7	448.5	191.7	186.4	188.2	181.1	177.6	186.4	188.2	186.4
47.5°	4662.1	3547.2	358.8	181.1	175.9	175.9	167.1	160.0	160.0	144.2	142.4
50°	4952.3	3621.0	286.7	167.1	165.3	163.6	151.2	138.9	128.4	109.0	105.5
52.5°	5193.2	3617.5	221.6	149.5	154.8	149.5	130.1	112.6	96.7	79.1	75.6
55°	5265.3	3448.7	167.1	123.1	131.9	124.9	103.8	87.9	70.3	56.3	54.5
57.5°	5203.8	3191.9	126.6	95.0	102.0	95.0	79.1	65.1	49.2	38.7	35.2
60°	4998.0	2891.2	98.5	73.9	77.4	72.1	59.8	49.2	35.2	24.6	21.1
62.5°	4607.6	2514.8	75.6	58.0	56.3	56.3	45.7	36.9	24.6	14.1	12.3
65°	3781.1	1960.9	58.0	40.4	40.4	40.4	35.2	26.4	15.8	7.0	3.5
67.5°	2374.1	1141.4	47.5	31.7	29.9	29.9	24.6	17.6	8.8	1.8	0.0
70°	893.4	418.6	36.9	24.6	22.9	22.9	17.6	10.6	5.3	0.0	0.0
72°	307.8	160.0	29.9	17.6	17.6	15.8	12.3	8.8	3.5	0.0	0.0
72.5°	253.2	128.4	28.1	17.6	15.8	15.8	12.3	8.8	3.5	0.0	0.0
75°	91.4	52.8	19.3	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°	28.1	21.1	8.8	7.0	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	19.3	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)