

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: P483150

Luminaire Tested: **IFLD-S-SA3C-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483150
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

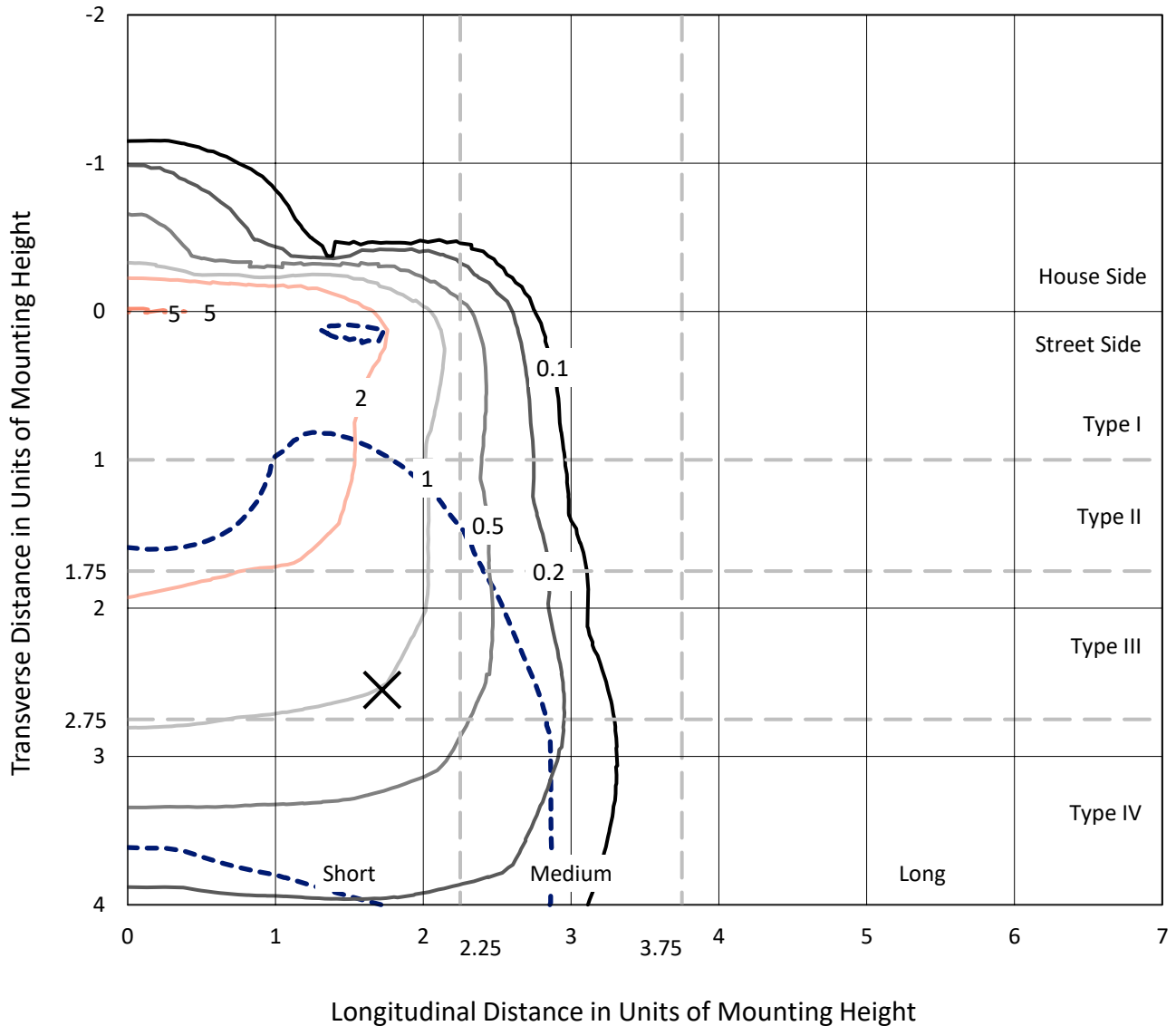
Lumens per Lamp: N/A
Luminaire Lumens: 13947.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

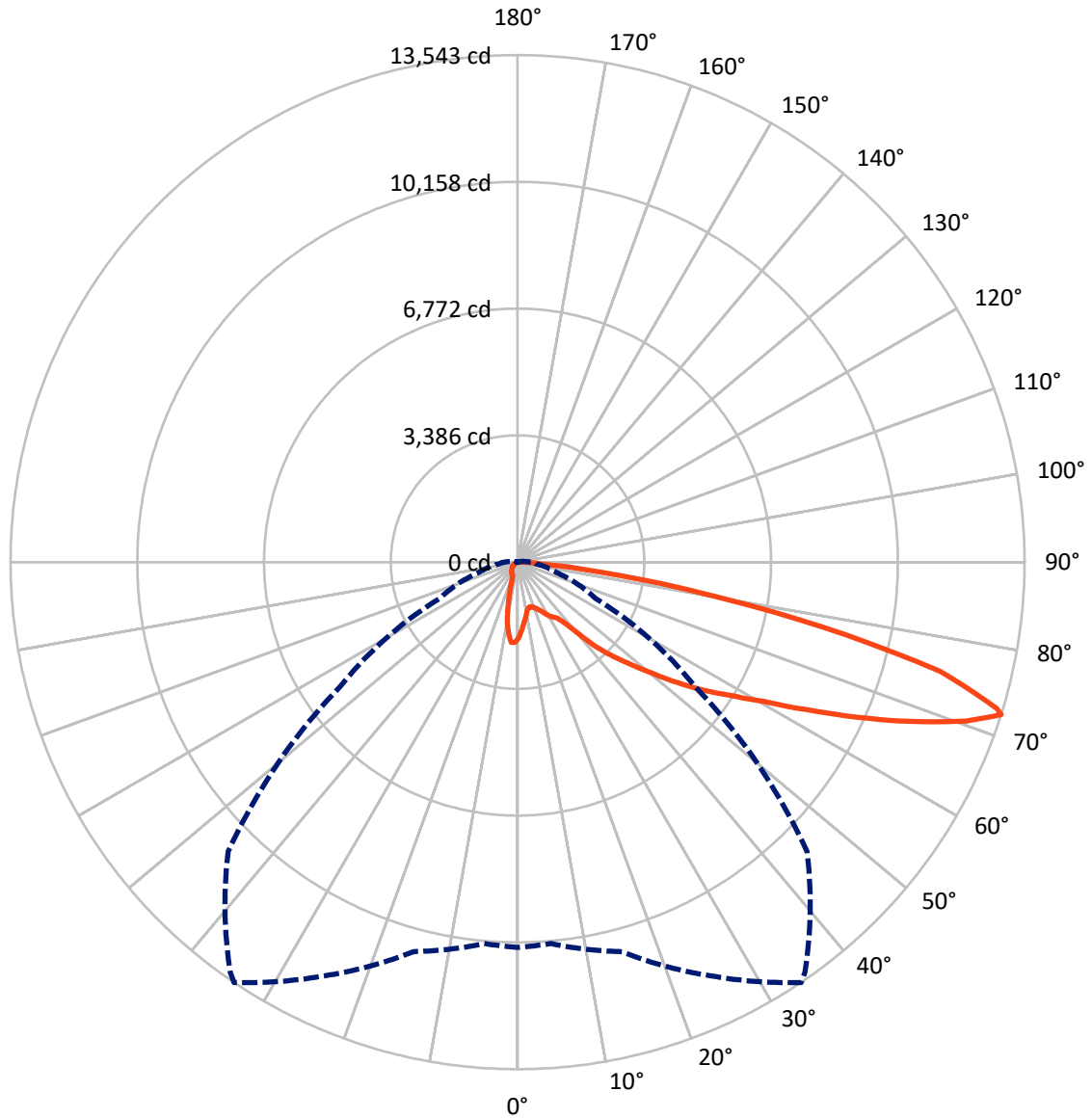
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	1427.8	0.0	1427.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	12519.3	0.0	12519.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	13947.1	0.0	13947.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.3
10°-20°	401.0	2.9
20°-30°	605.3	4.3
30°-40°	982.3	7.0
40°-50°	1847.1	13.2
50°-60°	3020.1	21.7
60°-70°	4014.8	28.8
70°-80°	2688.7	19.3
80°-90°	210.7	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°	13947.1	100.0
0°-180°	13947.1	100.0

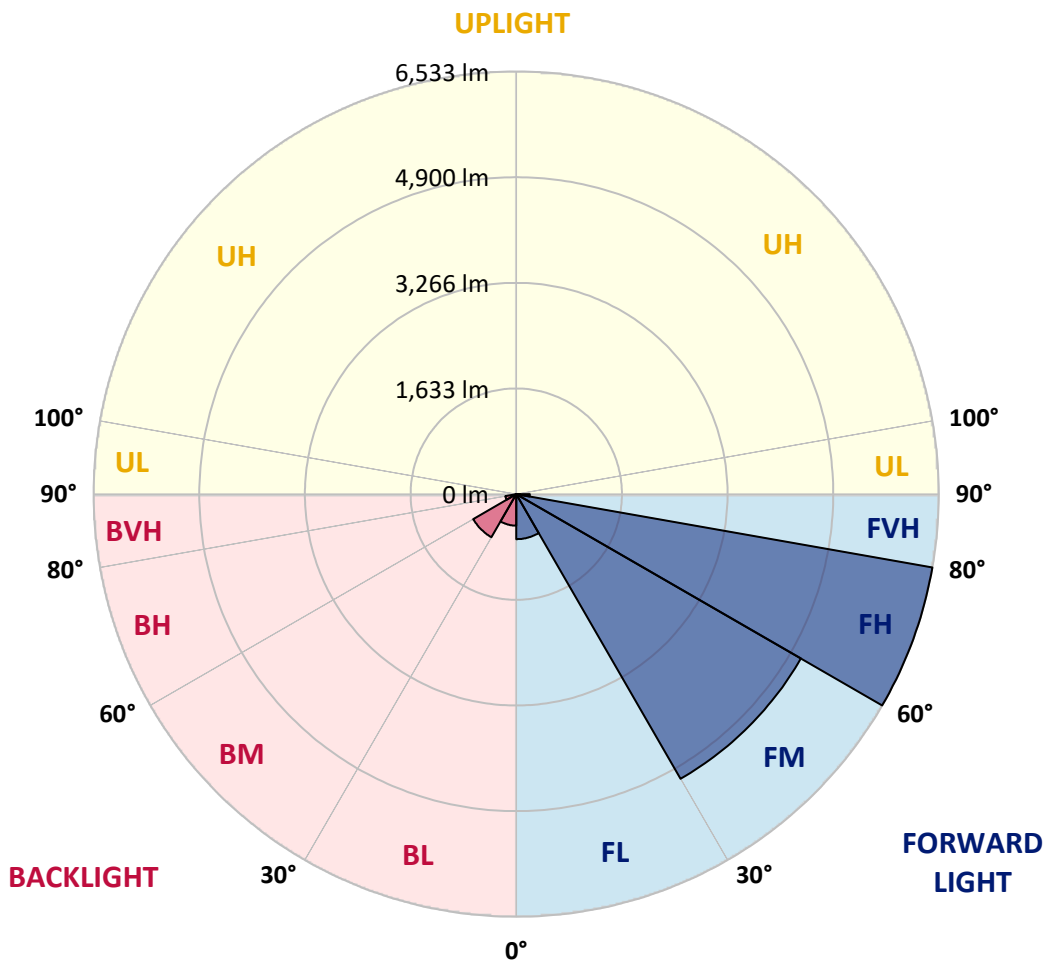


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.3	5.0			
FM (30°-60°)	5080.9	36.4			
FH (60°-80°)	6532.7	46.8			G3/7500
FVH (80°-90°)	209.4	1.5			G2/225
BL (0°-30°)	487.2	3.5	B1/500		
BM (30°-60°)	768.6	5.5	B1/1000		
BH (60°-80°)	170.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	1804.6	1800.5	1812.6	1832.8	1853.0	1844.9	1883.2	1923.5	1951.8	1990.1	2036.4
5°	1576.7	1586.8	1598.9	1639.2	1665.4	1671.5	1742.1	1794.5	1881.2	1969.9	2052.6
7.5°	1369.1	1381.2	1405.3	1449.7	1504.1	1518.3	1588.8	1693.7	1806.6	1923.5	2058.6
10°	1217.8	1229.9	1256.1	1284.4	1357.0	1357.0	1453.7	1598.9	1746.1	1883.2	2060.6
12.5°	1185.6	1191.6	1189.6	1211.8	1258.2	1268.2	1363.0	1522.3	1693.7	1869.1	2092.9
15°	1223.9	1227.9	1207.8	1195.7	1236.0	1246.1	1334.8	1475.9	1659.4	1877.2	2145.3
17.5°	1300.5	1286.4	1246.1	1227.9	1262.2	1268.2	1350.9	1473.9	1655.4	1899.3	2205.8
20°	1344.9	1361.0	1290.4	1256.1	1304.5	1312.6	1401.3	1506.2	1675.5	1937.6	2290.5
22.5°	1423.5	1431.6	1336.8	1314.6	1361.0	1361.0	1461.8	1570.7	1723.9	2000.2	2391.3
25°	1534.4	1524.3	1413.4	1391.2	1435.6	1453.7	1554.6	1673.5	1798.5	2058.6	2484.1
27.5°	1621.1	1627.1	1536.4	1477.9	1552.5	1564.6	1673.5	1784.4	1855.0	2107.0	2597.0
30°	1750.1	1738.0	1641.3	1574.7	1667.5	1669.5	1774.3	1889.3	1963.9	2193.7	2766.3
32.5°	1903.4	1879.2	1768.3	1673.5	1748.1	1766.3	1873.1	2040.5	2133.2	2357.0	3028.5
35°	2228.0	2169.5	1988.1	1840.9	1846.9	1855.0	2020.3	2260.3	2367.1	2564.7	3379.3
37.5°	2701.8	2677.6	2472.0	2191.7	2084.8	2060.6	2246.1	2550.6	2683.7	2838.9	3835.0
40°	3171.6	3137.3	2945.8	2734.1	2540.5	2492.1	2584.9	2935.7	3056.7	3220.0	4302.7
42.5°	3693.8	3633.3	3407.5	3236.1	3115.2	3062.7	3026.4	3419.6	3556.7	3667.6	4760.4
45°	4222.1	4123.3	3796.7	3665.6	3601.1	3572.9	3568.8	4028.5	4111.2	4133.4	5268.5
47.5°	4685.8	4579.0	4282.6	4135.4	4087.0	4078.9	4304.8	4730.2	4665.7	4607.2	5835.1
50°	5042.7	4974.2	4760.4	4708.0	4671.7	4657.6	5185.9	5452.0	5153.6	5050.8	6333.1
52.5°	5595.2	5441.9	5200.0	5218.1	5345.2	5347.2	6079.1	6137.6	5558.9	5355.2	6802.9
55°	6036.7	5935.9	5738.3	5712.1	6046.8	6083.1	6879.6	6657.8	5784.7	5645.6	6976.3
57.5°	6556.9	6510.6	6367.4	6371.5	6722.3	6798.9	7591.3	7097.3	5972.2	5833.1	7002.5
60°	7309.0	7175.9	7101.3	7135.6	7549.0	7623.6	8280.9	7413.9	6063.0	5956.1	6938.0
62.5°	8139.7	7984.5	7903.8	8079.2	8682.1	8694.2	8805.1	7694.1	6006.5	5988.4	6522.7
65°	9139.8	8986.6	8922.0	9274.9	9990.7	9946.3	9541.0	7813.1	5827.1	5663.7	5431.9
67.5°	10135.8	10043.1	9910.0	10472.6	11363.8	11363.8	10305.2	7768.7	5357.3	4546.7	3552.7
70°	10607.7	10672.2	10883.9	11767.0	12712.7	12615.9	11059.3	7258.6	3988.2	2441.7	1397.3
72°	10293.1	10226.6	10773.0	12190.4	13543.4	13384.1	10932.3	5770.6	2304.6	1070.6	485.9
72.5°	9752.8	9815.3	10567.3	12132.0	13388.1	13519.2	10621.8	5323.0	1895.3	852.9	367.0
75°	5980.3	6087.2	7887.7	10301.2	11666.2	11519.0	8216.3	2536.5	727.9	362.9	131.1
77.5°	2183.6	2272.3	3826.9	6482.3	8297.0	8204.3	4754.4	901.3	395.2	270.2	66.5
80°	568.6	615.0	1300.5	2990.1	4879.4	4885.5	1990.1	360.9	268.2	221.8	40.3
82.5°	112.9	125.0	399.2	1163.4	2280.4	2250.2	629.1	193.6	201.6	181.5	28.2
85°	14.1	18.1	84.7	395.2	738.0	661.3	155.3	96.8	149.2	141.1	18.1
87.5°	2.0	2.0	20.2	90.7	155.3	151.2	32.3	30.2	66.5	86.7	10.1
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°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2062.7	2070.7	2098.9	2123.1	2151.4	2159.4	2147.3	2167.5	2139.3	2155.4	2159.4
5°	2066.7	2113.1	2165.5	2199.8	2191.7	2171.5	2155.4	2101.0	2062.7	2048.5	2078.8
7.5°	2094.9	2147.3	2203.8	2203.8	2159.4	2054.6	1953.8	1857.0	1776.3	1736.0	1770.3
10°	2131.2	2185.6	2244.1	2167.5	2002.2	1810.6	1667.5	1486.0	1363.0	1298.5	1304.5
12.5°	2179.6	2256.2	2276.4	2098.9	1824.7	1540.4	1280.3	1028.3	911.4	818.6	820.6
15°	2242.1	2316.7	2256.2	1949.7	1598.9	1179.5	867.0	627.1	534.3	485.9	485.9
17.5°	2324.8	2381.2	2250.2	1812.6	1294.5	806.5	532.3	423.4	403.3	395.2	395.2
20°	2421.6	2463.9	2191.7	1598.9	961.8	518.2	391.2	379.1	381.1	377.0	377.0
22.5°	2530.4	2544.5	2125.2	1350.9	651.3	383.1	364.9	367.0	369.0	364.9	367.0
25°	2645.4	2607.1	2028.4	1060.6	433.5	348.8	352.8	356.9	358.9	360.9	360.9
27.5°	2774.4	2697.8	1893.3	776.3	338.7	328.7	340.8	352.8	354.9	354.9	352.8
30°	2963.9	2836.9	1762.2	526.2	298.4	306.5	326.6	340.8	350.8	350.8	348.8
32.5°	3203.9	2982.1	1578.7	358.9	276.2	280.3	296.4	324.6	346.8	348.8	342.8
35°	3536.6	3157.5	1387.2	286.3	260.1	262.1	272.2	294.4	332.7	344.8	342.8
37.5°	3887.4	3357.1	1149.3	258.1	248.0	246.0	252.0	270.2	304.5	334.7	336.7
40°	4260.4	3566.8	899.3	244.0	237.9	233.9	235.9	244.0	270.2	308.5	316.6
42.5°	4611.2	3756.3	675.5	229.9	227.8	223.8	223.8	225.8	239.9	266.1	270.2
45°	4990.3	3911.6	514.2	219.8	213.7	215.7	207.7	203.6	213.7	215.7	213.7
47.5°	5345.2	4066.8	411.3	207.7	201.6	201.6	191.5	183.5	183.5	165.3	163.3
50°	5677.8	4151.5	328.7	191.5	189.5	187.5	173.4	159.3	147.2	125.0	121.0
52.5°	5954.1	4147.5	254.1	171.4	177.4	171.4	149.2	129.0	110.9	90.7	86.7
55°	6036.7	3953.9	191.5	141.1	151.2	143.2	119.0	100.8	80.7	64.5	62.5
57.5°	5966.2	3659.6	145.2	108.9	116.9	108.9	90.7	74.6	56.5	44.4	40.3
60°	5730.3	3314.8	112.9	84.7	88.7	82.7	68.6	56.5	40.3	28.2	24.2
62.5°	5282.7	2883.3	86.7	66.5	64.5	64.5	52.4	42.3	28.2	16.1	14.1
65°	4335.0	2248.2	66.5	46.4	46.4	46.4	40.3	30.2	18.1	8.1	4.0
67.5°	2722.0	1308.6	54.4	36.3	34.3	34.3	28.2	20.2	10.1	2.0	0.0
70°	1024.3	479.9	42.3	28.2	26.2	26.2	20.2	12.1	6.0	0.0	0.0
72°	352.8	183.5	34.3	20.2	20.2	18.1	14.1	10.1	4.0	0.0	0.0
72.5°	290.3	147.2	32.3	20.2	18.1	18.1	14.1	10.1	4.0	0.0	0.0
75°	104.8	60.5	22.2	14.1	12.1	12.1	10.1	6.0	2.0	0.0	0.0
77.5°	52.4	38.3	18.1	12.1	10.1	6.0	6.0	4.0	2.0	0.0	0.0
80°	32.3	24.2	10.1	8.1	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	22.2	14.1	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	4.0	2.0	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)