

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: P483124

Luminaire Tested: **IFLD-S-SA6A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483124
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

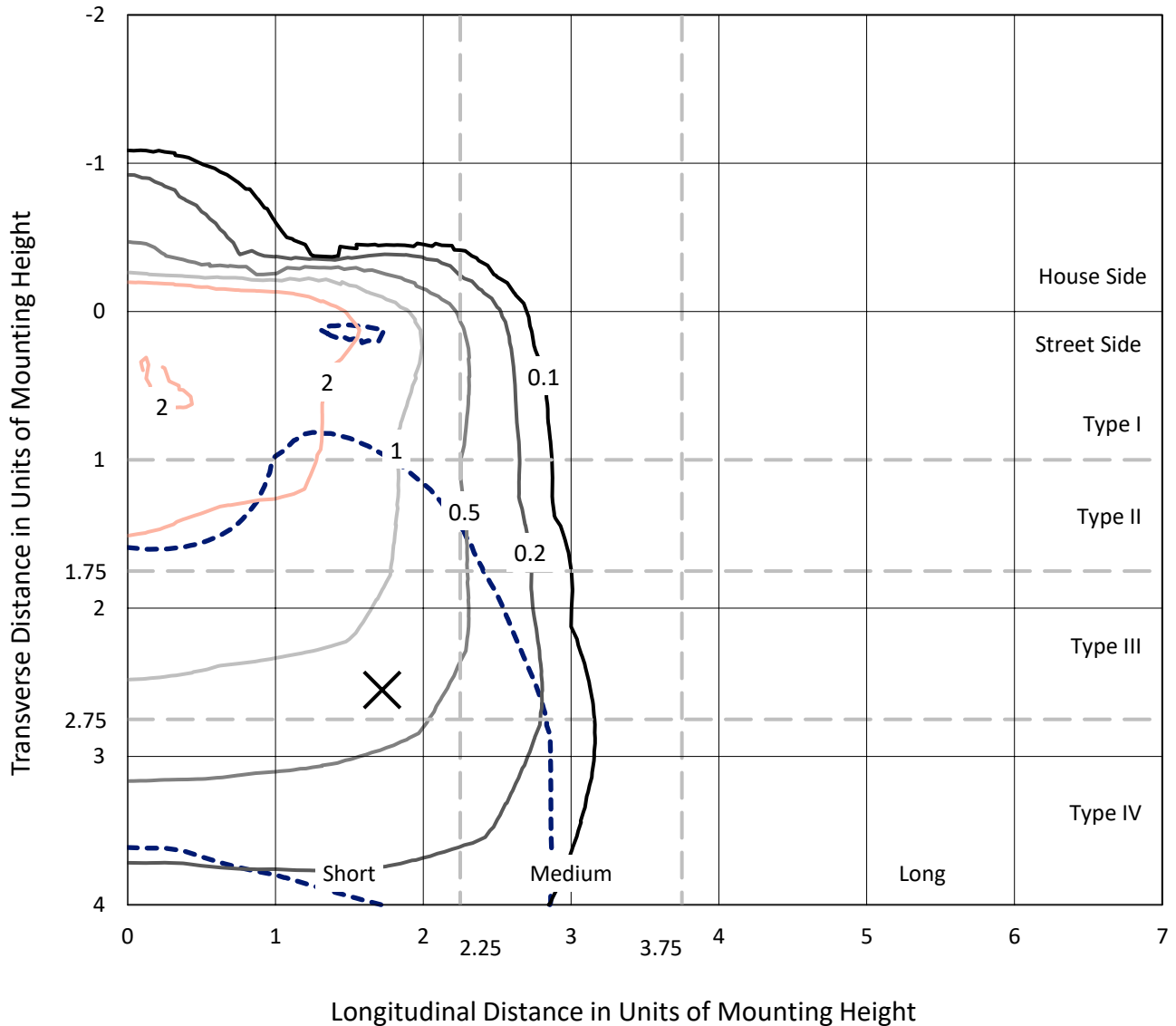
Lumens per Lamp: N/A
Luminaire Lumens: 16321.3 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

REPORT NUMBER: P483124
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

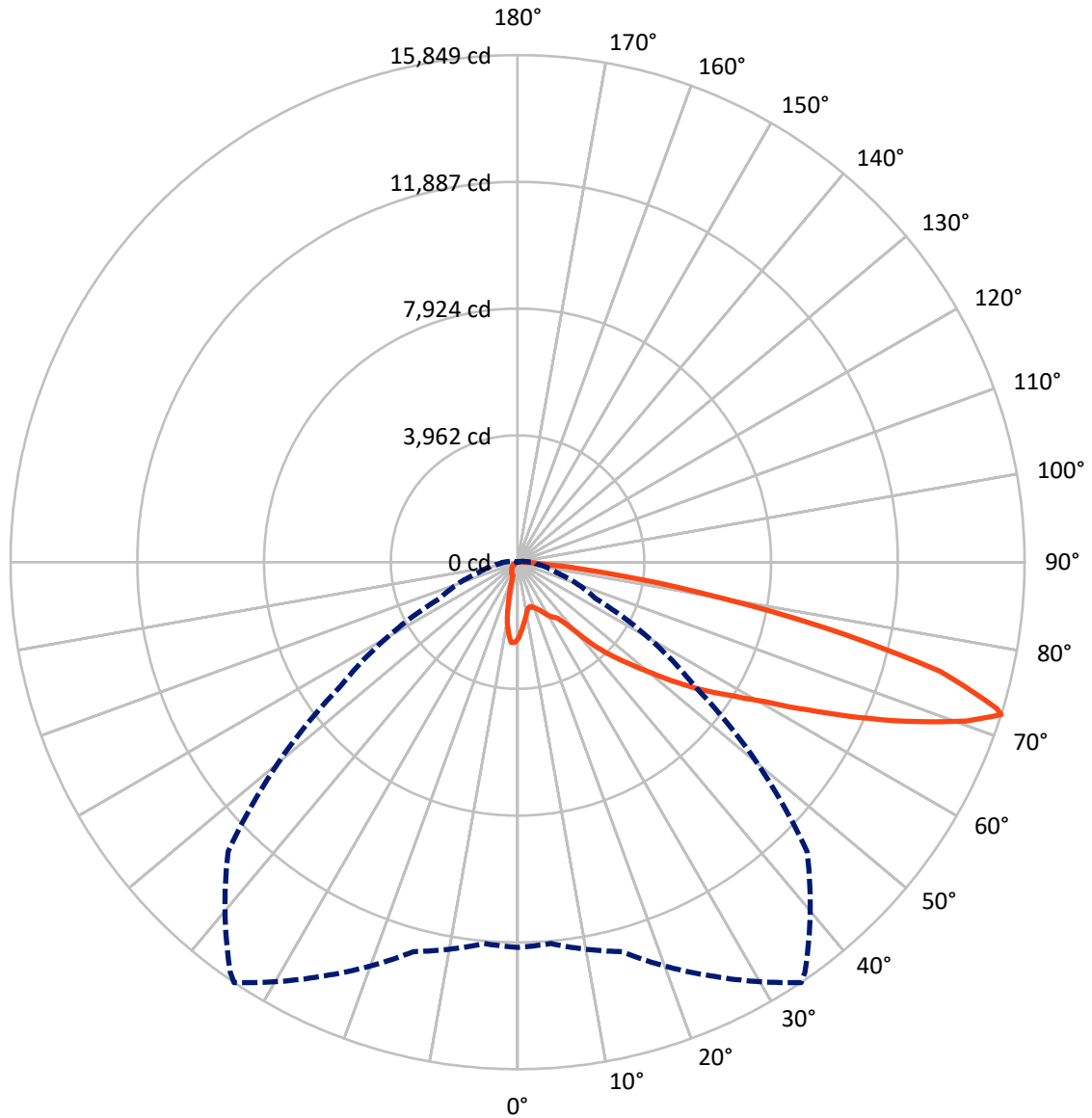
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483124
CATALOG NUMBER: IFLD-S-SA6A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483124
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.9	0.0	1670.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14650.4	0.0	14650.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	16321.3	0.0	16321.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.3
10°-20°	469.3	2.9
20°-30°	708.3	4.3
30°-40°	1149.5	7.0
40°-50°	2161.6	13.2
50°-60°	3534.2	21.7
60°-70°	4698.2	28.8
70°-80°	3146.4	19.3
80°-90°	246.6	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°	16321.3	100.0
0°-180°	16321.3	100.0

Coefficient of Utilization



REPORT NUMBER: P483124

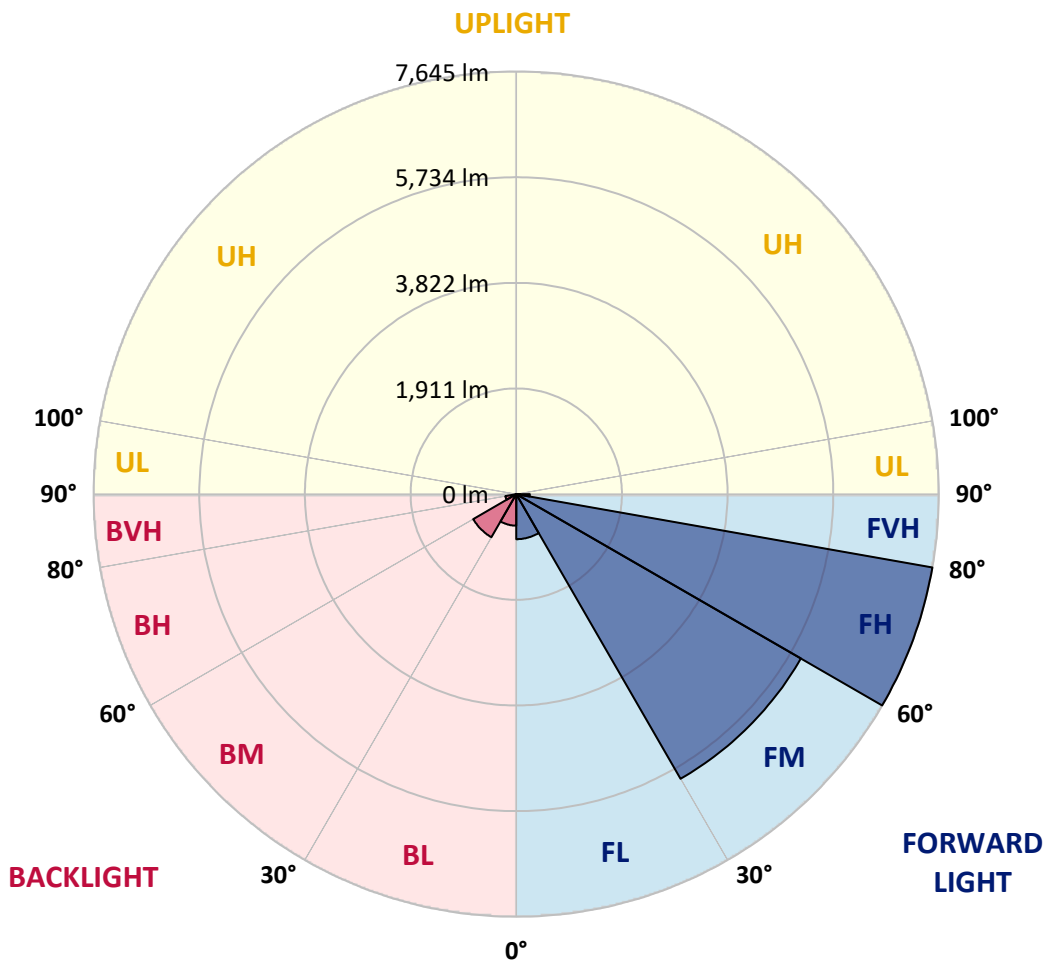
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.8	5.0			
FM (30°-60°)	5945.8	36.4			
FH (60°-80°)	7644.8	46.8			G4/12000
FVH (80°-90°)	245.0	1.5			G3/500
BL (0°-30°)	570.1	3.5	B2/1000		
BM (30°-60°)	899.4	5.5	B1/1000		
BH (60°-80°)	199.8	1.2	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: B2-U0-G4

Type IV Short





REPORT NUMBER: P483124

CATALOG NUMBER: IFLD-S-SA6A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8
2.5°	2111.8	2107.0	2121.2	2144.8	2168.4	2158.9	2203.8	2251.0	2284.0	2328.8	2383.1
5°	1845.1	1856.9	1871.1	1918.3	1949.0	1956.0	2038.6	2100.0	2201.4	2305.2	2402.0
7.5°	1602.1	1616.3	1644.6	1696.5	1760.2	1776.7	1859.3	1982.0	2114.1	2251.0	2409.1
10°	1425.1	1439.3	1470.0	1503.0	1587.9	1587.9	1701.2	1871.1	2043.3	2203.8	2411.4
12.5°	1387.4	1394.5	1392.1	1418.1	1472.3	1484.1	1595.0	1781.4	1982.0	2187.3	2449.2
15°	1432.2	1436.9	1413.3	1399.2	1446.4	1458.2	1562.0	1727.2	1941.9	2196.7	2510.5
17.5°	1521.9	1505.4	1458.2	1436.9	1477.1	1484.1	1580.9	1724.8	1937.2	2222.7	2581.3
20°	1573.8	1592.7	1510.1	1470.0	1526.6	1536.0	1639.9	1762.6	1960.7	2267.5	2680.4
22.5°	1665.8	1675.2	1564.4	1538.4	1592.7	1592.7	1710.6	1838.1	2017.4	2340.6	2798.4
25°	1795.6	1783.8	1654.0	1628.1	1680.0	1701.2	1819.2	1958.4	2104.7	2409.1	2906.9
27.5°	1897.0	1904.1	1797.9	1729.5	1816.8	1831.0	1958.4	2088.2	2170.7	2465.7	3039.0
30°	2048.1	2033.9	1920.6	1842.8	1951.3	1953.7	2076.4	2210.9	2298.2	2567.1	3237.2
32.5°	2227.4	2199.1	2069.3	1958.4	2045.7	2066.9	2192.0	2387.8	2496.4	2758.3	3544.0
35°	2607.3	2538.8	2326.5	2154.2	2161.3	2170.7	2364.2	2645.0	2770.1	3001.3	3954.5
37.5°	3161.7	3133.4	2892.8	2564.8	2439.7	2411.4	2628.5	2984.8	3140.5	3322.2	4487.8
40°	3711.5	3671.4	3447.2	3199.5	2973.0	2916.3	3024.9	3435.4	3577.0	3768.1	5035.2
42.5°	4322.6	4251.8	3987.6	3787.0	3645.4	3584.1	3541.6	4001.7	4162.2	4291.9	5570.8
45°	4940.8	4825.2	4443.0	4289.6	4214.1	4181.0	4176.3	4714.3	4811.0	4837.0	6165.4
47.5°	5483.5	5358.4	5011.6	4839.3	4782.7	4773.3	5037.5	5535.4	5459.9	5391.5	6828.4
50°	5901.1	5820.9	5570.8	5509.4	5467.0	5450.5	6068.6	6380.1	6030.9	5910.6	7411.2
52.5°	6547.6	6368.3	6085.2	6106.4	6255.1	6257.4	7113.9	7182.3	6505.2	6266.8	7961.0
55°	7064.4	6946.4	6715.2	6684.5	7076.2	7118.6	8050.6	7791.1	6769.4	6606.6	8163.9
57.5°	7673.1	7618.8	7451.3	7456.0	7866.6	7956.3	8883.5	8305.5	6988.9	6826.1	8194.6
60°	8553.2	8397.5	8310.2	8350.3	8834.0	8921.3	9690.5	8675.9	7095.0	6970.0	8119.1
62.5°	9525.3	9343.6	9249.3	9454.5	10160.0	10174.2	10304.0	9003.9	7029.0	7007.7	7633.0
65°	10695.6	10516.3	10440.8	10853.7	11691.4	11639.4	11165.2	9143.1	6819.0	6627.9	6356.5
67.5°	11861.2	11752.7	11597.0	12255.3	13298.2	13298.2	12059.4	9091.2	6269.2	5320.7	4157.4
70°	12413.4	12488.9	12736.6	13770.1	14876.7	14763.4	12941.9	8494.2	4667.1	2857.4	1635.1
72°	12045.3	11967.4	12606.8	14265.6	15848.8	15662.4	12793.2	6752.9	2696.9	1252.9	568.6
72.5°	11412.9	11486.1	12366.2	14197.1	15667.1	15820.5	12429.9	6229.1	2217.9	998.1	429.4
75°	6998.3	7123.3	9230.4	12054.7	13652.1	13479.9	9615.0	2968.3	851.8	424.7	153.4
77.5°	2555.3	2659.2	4478.3	7585.8	9709.4	9600.8	5563.7	1054.7	462.5	316.2	77.9
80°	665.4	719.6	1521.9	3499.1	5710.0	5717.1	2328.8	422.4	313.8	259.5	47.2
82.5°	132.1	146.3	467.2	1361.4	2668.6	2633.2	736.2	226.5	236.0	212.4	33.0
85°	16.5	21.2	99.1	462.5	863.6	773.9	181.7	113.3	174.6	165.2	21.2
87.5°	2.4	2.4	23.6	106.2	181.7	177.0	37.8	35.4	77.9	101.5	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483124
 CATALOG NUMBER: IFLD-S-SA6A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8
2.5°	2413.8	2423.2	2456.2	2484.6	2517.6	2527.0	2512.9	2536.5	2503.4	2522.3	2527.0
5°	2418.5	2472.8	2534.1	2574.2	2564.8	2541.2	2522.3	2458.6	2413.8	2397.3	2432.7
7.5°	2451.5	2512.9	2578.9	2578.9	2527.0	2404.3	2286.4	2173.1	2078.7	2031.5	2071.6
10°	2494.0	2557.7	2626.1	2536.5	2343.0	2118.8	1951.3	1739.0	1595.0	1519.5	1526.6
12.5°	2550.6	2640.3	2663.9	2456.2	2135.4	1802.7	1498.3	1203.3	1066.5	958.0	960.3
15°	2623.8	2711.1	2640.3	2281.6	1871.1	1380.3	1014.6	733.8	625.3	568.6	568.6
17.5°	2720.5	2786.6	2633.2	2121.2	1514.8	943.8	622.9	495.5	471.9	462.5	462.5
20°	2833.8	2883.3	2564.8	1871.1	1125.5	606.4	457.7	443.6	445.9	441.2	441.2
22.5°	2961.2	2977.7	2486.9	1580.9	762.1	448.3	427.1	429.4	431.8	427.1	429.4
25°	3095.7	3050.8	2373.7	1241.1	507.3	408.2	412.9	417.6	420.0	422.4	422.4
27.5°	3246.7	3157.0	2215.6	908.4	396.4	384.6	398.8	412.9	415.3	415.3	412.9
30°	3468.5	3319.8	2062.2	615.8	349.2	358.6	382.2	398.8	410.6	410.6	408.2
32.5°	3749.3	3489.7	1847.5	420.0	323.3	328.0	346.8	379.9	405.8	408.2	401.1
35°	4138.6	3695.0	1623.3	335.0	304.4	306.7	318.5	344.5	389.3	403.5	401.1
37.5°	4549.1	3928.6	1344.9	302.0	290.2	287.9	294.9	316.2	356.3	391.7	394.0
40°	4985.6	4174.0	1052.3	285.5	278.4	273.7	276.1	285.5	316.2	361.0	370.4
42.5°	5396.2	4395.8	790.4	269.0	266.6	261.9	261.9	264.3	280.8	311.5	316.2
45°	5839.8	4577.4	601.7	257.2	250.1	252.5	243.0	238.3	250.1	252.5	250.1
47.5°	6255.1	4759.1	481.3	243.0	236.0	236.0	224.2	214.7	214.7	193.5	191.1
50°	6644.4	4858.2	384.6	224.2	221.8	219.4	202.9	186.4	172.2	146.3	141.6
52.5°	6967.6	4853.5	297.3	200.6	207.6	200.6	174.6	151.0	129.8	106.2	101.5
55°	7064.4	4627.0	224.2	165.2	177.0	167.5	139.2	118.0	94.4	75.5	73.1
57.5°	6981.8	4282.5	169.9	127.4	136.9	127.4	106.2	87.3	66.1	51.9	47.2
60°	6705.7	3879.0	132.1	99.1	103.8	96.7	80.2	66.1	47.2	33.0	28.3
62.5°	6181.9	3374.1	101.5	77.9	75.5	75.5	61.3	49.5	33.0	18.9	16.5
65°	5072.9	2630.8	77.9	54.3	54.3	54.3	47.2	35.4	21.2	9.4	4.7
67.5°	3185.3	1531.3	63.7	42.5	40.1	40.1	33.0	23.6	11.8	2.4	0.0
70°	1198.6	561.6	49.5	33.0	30.7	30.7	23.6	14.2	7.1	0.0	0.0
72°	412.9	214.7	40.1	23.6	23.6	21.2	16.5	11.8	4.7	0.0	0.0
72.5°	339.8	172.2	37.8	23.6	21.2	21.2	16.5	11.8	4.7	0.0	0.0
75°	122.7	70.8	26.0	16.5	14.2	14.2	11.8	7.1	2.4	0.0	0.0
77.5°	61.3	44.8	21.2	14.2	11.8	7.1	7.1	4.7	2.4	0.0	0.0
80°	37.8	28.3	11.8	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0
82.5°	26.0	16.5	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.5	7.1	4.7	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.7	2.4	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)