

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: P483132

Luminaire Tested: **IFLD-M-SA4D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483132
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

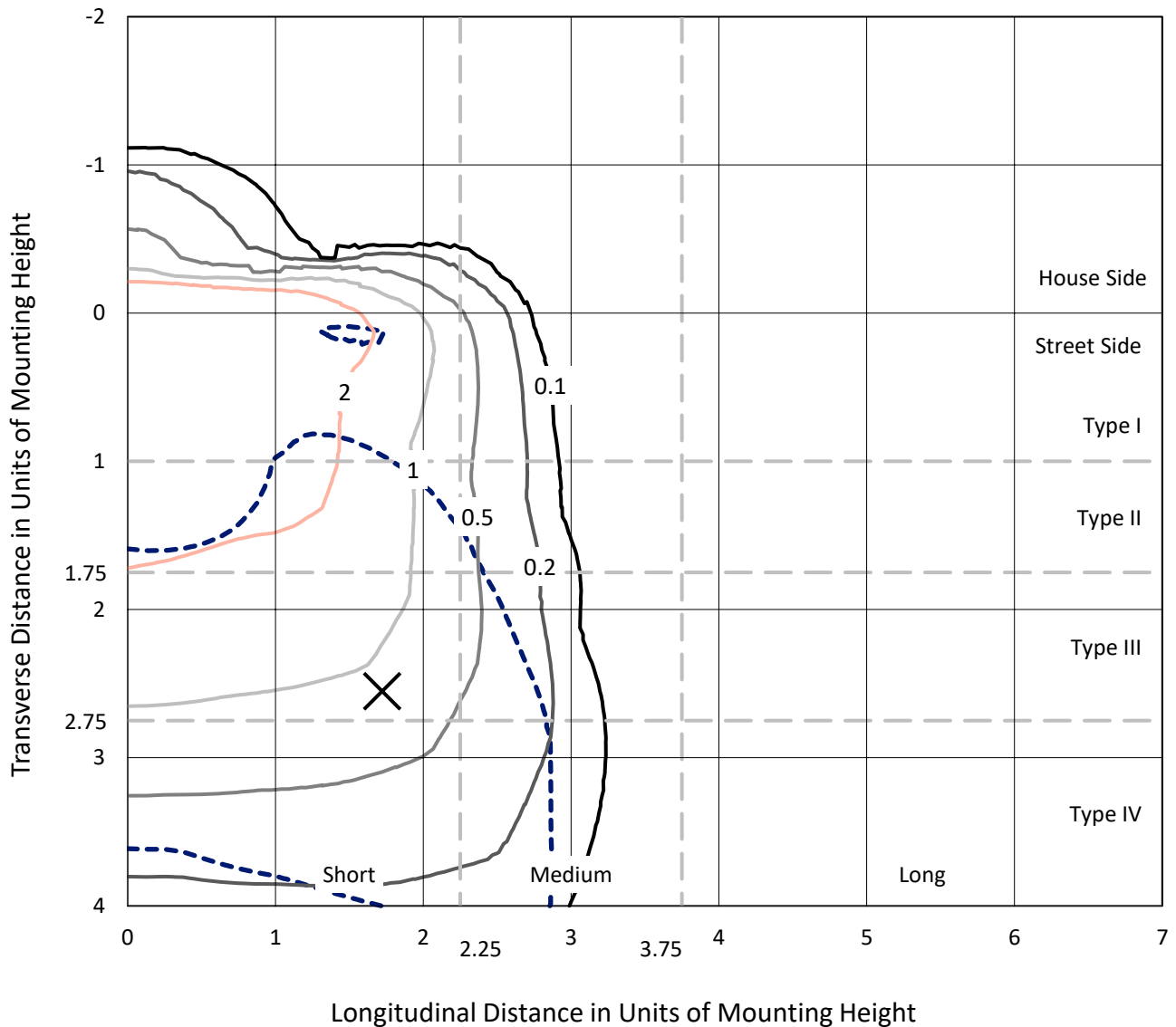
Lumens per Lamp: N/A
Luminaire Lumens: 18918 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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: P483132
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

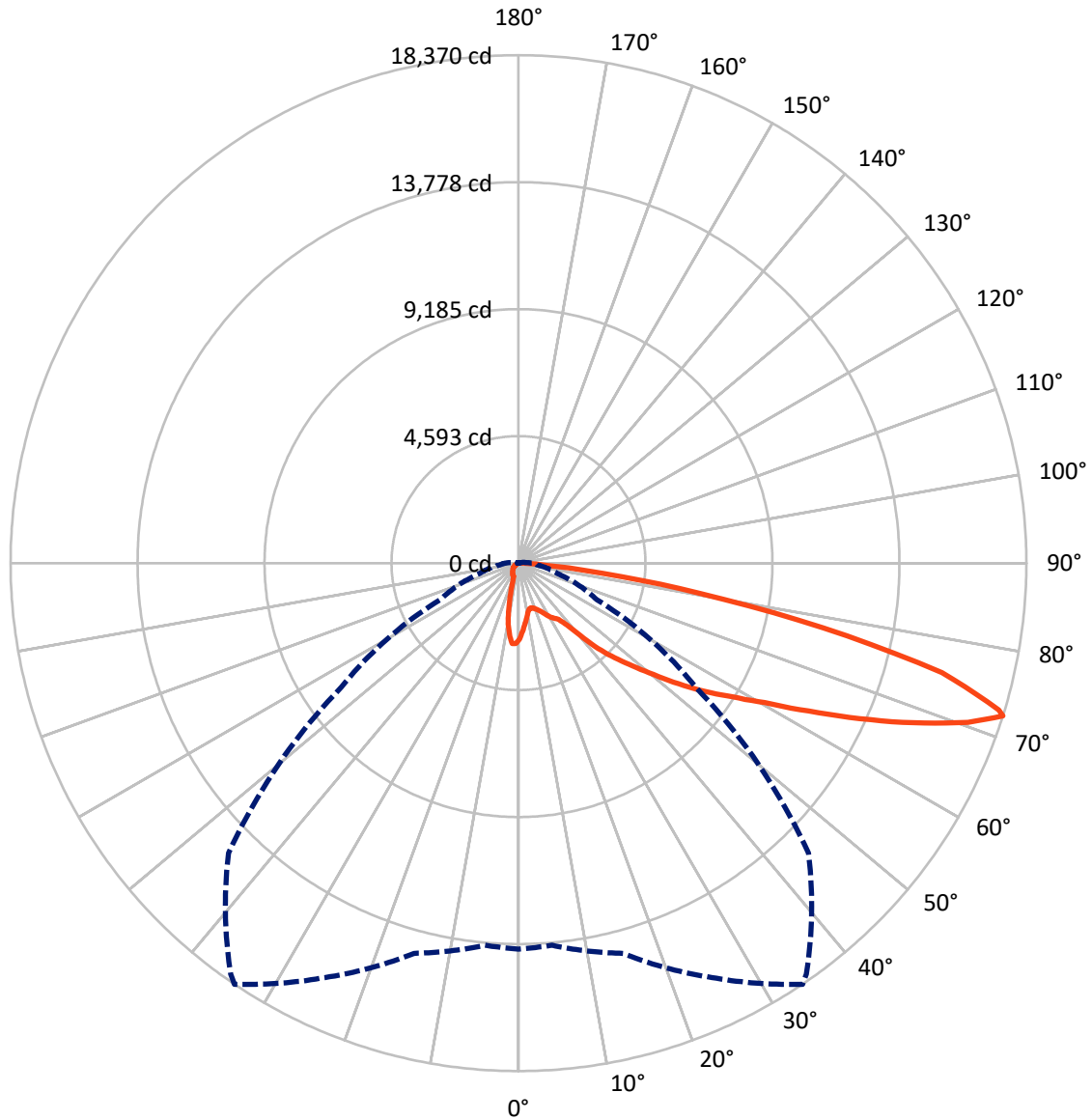
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P483132
CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483132
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.8	0.0	1936.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	16981.2	0.0	16981.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	18918.0	0.0	18918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.3
10°-20°	544.0	2.9
20°-30°	821.0	4.3
30°-40°	1332.4	7.0
40°-50°	2505.5	13.2
50°-60°	4096.5	21.7
60°-70°	5445.7	28.8
70°-80°	3646.9	19.3
80°-90°	285.8	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°	18918.0	100.0
0°-180°	18918.0	100.0



REPORT NUMBER: P483132

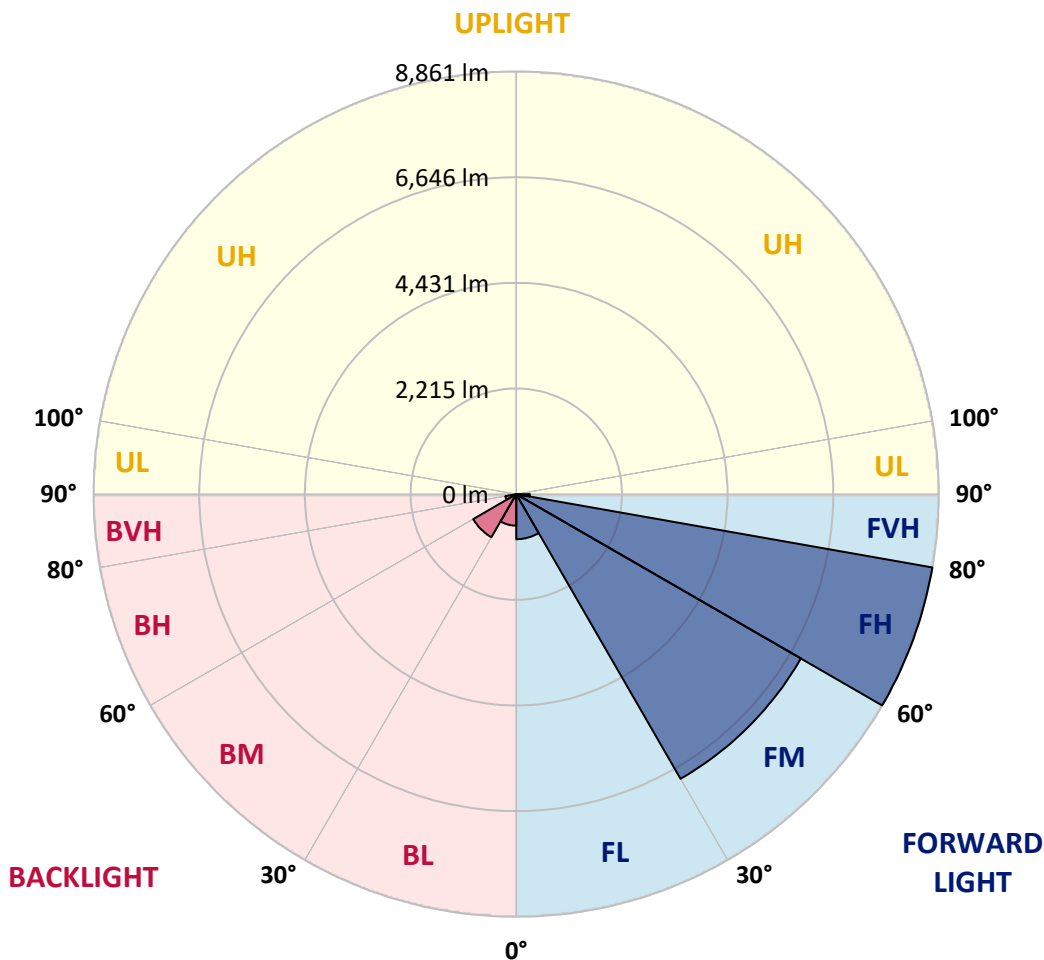
CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.4	5.0			
FM (30°-60°)	6891.8	36.4			
FH (60°-80°)	8861.0	46.8			G4/12000
FVH (80°-90°)	284.0	1.5			G3/500
BL (0°-30°)	660.8	3.5	B2/1000		
BM (30°-60°)	1042.5	5.5	B2/2500		
BH (60°-80°)	231.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	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: P483132

CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2447.7	2442.3	2458.7	2486.0	2513.4	2502.4	2554.4	2609.1	2647.4	2699.3	2762.2
5°	2138.7	2152.4	2168.8	2223.5	2259.0	2267.2	2362.9	2434.1	2551.7	2672.0	2784.1
7.5°	1857.0	1873.4	1906.2	1966.4	2040.2	2059.4	2155.1	2297.3	2450.5	2609.1	2792.3
10°	1651.9	1668.3	1703.8	1742.1	1840.6	1840.6	1971.9	2168.8	2368.4	2554.4	2795.1
12.5°	1608.1	1616.3	1613.6	1643.7	1706.6	1720.2	1848.8	2064.8	2297.3	2535.2	2838.8
15°	1660.1	1665.6	1638.2	1621.8	1676.5	1690.2	1810.5	2001.9	2250.8	2546.2	2909.9
17.5°	1764.0	1744.9	1690.2	1665.6	1712.0	1720.2	1832.4	1999.2	2245.3	2576.3	2992.0
20°	1824.2	1846.1	1750.3	1703.8	1769.5	1780.4	1900.8	2043.0	2272.7	2628.2	3106.8
22.5°	1930.8	1941.8	1813.2	1783.2	1846.1	1846.1	1982.8	2130.5	2338.3	2713.0	3243.6
25°	2081.3	2067.6	1917.2	1887.1	1947.2	1971.9	2108.6	2270.0	2439.5	2792.3	3369.4
27.5°	2198.9	2207.1	2084.0	2004.7	2105.9	2122.3	2270.0	2420.4	2516.1	2858.0	3522.5
30°	2373.9	2357.5	2226.2	2136.0	2261.8	2264.5	2406.7	2562.6	2663.8	2975.6	3752.3
32.5°	2581.7	2548.9	2398.5	2270.0	2371.2	2395.8	2540.7	2767.7	2893.5	3197.1	4107.8
35°	3022.1	2942.7	2696.6	2497.0	2505.2	2516.1	2740.4	3065.8	3210.8	3478.8	4583.7
37.5°	3664.8	3631.9	3353.0	2972.8	2827.9	2795.1	3046.7	3459.6	3640.1	3850.7	5201.8
40°	4302.0	4255.5	3995.7	3708.5	3446.0	3380.3	3506.1	3982.0	4146.1	4367.6	5836.3
42.5°	5010.3	4928.3	4622.0	4389.5	4225.4	4154.3	4105.1	4638.4	4824.4	4974.8	6457.1
45°	5726.9	5592.9	5149.8	4972.0	4884.5	4846.2	4840.8	5464.3	5576.4	5606.5	7146.3
47.5°	6355.9	6210.9	5808.9	5609.3	5543.6	5532.7	5839.0	6416.1	6328.5	6249.2	7914.8
50°	6840.0	6747.0	6457.1	6386.0	6336.7	6317.6	7034.1	7395.2	6990.4	6850.9	8590.3
52.5°	7589.3	7381.5	7053.3	7077.9	7250.2	7252.9	8245.7	8325.0	7540.1	7263.9	9227.5
55°	8188.3	8051.5	7783.5	7748.0	8201.9	8251.2	9331.5	9030.6	7846.4	7657.7	9462.7
57.5°	8893.9	8831.0	8636.8	8642.3	9118.1	9222.1	10296.9	9626.8	8100.8	7912.0	9498.3
60°	9914.0	9733.5	9632.3	9678.8	10239.4	10340.6	11232.2	10056.2	8223.8	8078.9	9410.8
62.5°	11040.8	10830.2	10720.8	10958.7	11776.5	11792.9	11943.3	10436.4	8147.2	8122.6	8847.4
65°	12397.3	12189.4	12101.9	12580.5	13551.4	13491.2	12941.5	10597.7	7903.8	7682.3	7367.8
67.5°	13748.3	13622.5	13442.0	14205.0	15413.9	15413.9	13978.0	10537.5	7266.6	6167.2	4818.9
70°	14388.3	14475.8	14763.0	15960.8	17243.5	17112.2	15000.9	9845.6	5409.6	3312.0	1895.3
72°	13961.6	13871.4	14612.5	16535.2	18370.3	18154.2	14828.6	7827.3	3126.0	1452.2	659.1
72.5°	13228.7	13313.5	14333.6	16455.9	18159.7	18337.5	14407.4	7220.1	2570.8	1156.9	497.8
75°	8111.7	8256.6	10698.9	13972.6	15824.1	15624.4	11144.7	3440.5	987.3	492.3	177.8
77.5°	2961.9	3082.2	5190.8	8792.7	11254.1	11128.3	6448.9	1222.5	536.0	366.5	90.3
80°	771.2	834.1	1764.0	4055.8	6618.4	6626.6	2699.3	489.5	363.7	300.8	54.7
82.5°	153.2	169.6	541.5	1578.0	3093.2	3052.1	853.3	262.5	273.5	246.1	38.3
85°	19.1	24.6	114.9	536.0	1001.0	897.0	210.6	131.3	202.4	191.4	24.6
87.5°	2.7	2.7	27.3	123.1	210.6	205.1	43.8	41.0	90.3	117.6	13.7
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: P483132

CATALOG NUMBER: IFLD-M-SA4D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2797.8	2808.7	2847.0	2879.8	2918.1	2929.1	2912.7	2940.0	2901.7	2923.6	2929.1
5°	2803.3	2866.2	2937.3	2983.8	2972.8	2945.5	2923.6	2849.8	2797.8	2778.7	2819.7
7.5°	2841.6	2912.7	2989.2	2989.2	2929.1	2786.9	2650.1	2518.8	2409.4	2354.7	2401.2
10°	2890.8	2964.6	3043.9	2940.0	2715.7	2455.9	2261.8	2015.6	1848.8	1761.3	1769.5
12.5°	2956.4	3060.3	3087.7	2847.0	2475.1	2089.5	1736.7	1394.8	1236.2	1110.4	1113.1
15°	3041.2	3142.4	3060.3	2644.6	2168.8	1599.9	1176.0	850.6	724.7	659.1	659.1
17.5°	3153.3	3229.9	3052.1	2458.7	1755.8	1094.0	722.0	574.3	547.0	536.0	536.0
20°	3284.6	3342.0	2972.8	2168.8	1304.5	702.9	530.6	514.2	516.9	511.4	511.4
22.5°	3432.3	3451.4	2882.6	1832.4	883.4	519.6	495.0	497.8	500.5	495.0	497.8
25°	3588.2	3536.2	2751.3	1438.6	588.0	473.1	478.6	484.1	486.8	489.5	489.5
27.5°	3763.2	3659.3	2568.1	1052.9	459.5	445.8	462.2	478.6	481.3	481.3	478.6
30°	4020.3	3848.0	2390.3	713.8	404.8	415.7	443.1	462.2	475.9	475.9	473.1
32.5°	4345.7	4044.9	2141.4	486.8	374.7	380.2	402.0	440.3	470.4	473.1	464.9
35°	4797.0	4282.8	1881.6	388.4	352.8	355.5	369.2	399.3	451.3	467.7	464.9
37.5°	5272.9	4553.6	1558.9	350.1	336.4	333.7	341.9	366.5	413.0	454.0	456.7
40°	5778.8	4838.0	1219.8	330.9	322.7	317.2	320.0	330.9	366.5	418.4	429.4
42.5°	6254.7	5095.1	916.2	311.8	309.0	303.6	303.6	306.3	325.5	361.0	366.5
45°	6768.9	5305.7	697.4	298.1	289.9	292.6	281.7	276.2	289.9	292.6	289.9
47.5°	7250.2	5516.3	557.9	281.7	273.5	273.5	259.8	248.9	248.9	224.3	221.5
50°	7701.5	5631.1	445.8	259.8	257.1	254.3	235.2	216.1	199.6	169.6	164.1
52.5°	8076.1	5625.7	344.6	232.5	240.7	232.5	202.4	175.0	150.4	123.1	117.6
55°	8188.3	5363.1	259.8	191.4	205.1	194.2	161.4	136.7	109.4	87.5	84.8
57.5°	8092.6	4963.8	196.9	147.7	158.6	147.7	123.1	101.2	76.6	60.2	54.7
60°	7772.6	4496.2	153.2	114.9	120.3	112.1	93.0	76.6	54.7	38.3	32.8
62.5°	7165.4	3910.9	117.6	90.3	87.5	87.5	71.1	57.4	38.3	21.9	19.1
65°	5880.0	3049.4	90.3	62.9	62.9	62.9	54.7	41.0	24.6	10.9	5.5
67.5°	3692.1	1774.9	73.8	49.2	46.5	46.5	38.3	27.3	13.7	2.7	0.0
70°	1389.3	650.9	57.4	38.3	35.6	35.6	27.3	16.4	8.2	0.0	0.0
72°	478.6	248.9	46.5	27.3	27.3	24.6	19.1	13.7	5.5	0.0	0.0
72.5°	393.8	199.6	43.8	27.3	24.6	24.6	19.1	13.7	5.5	0.0	0.0
75°	142.2	82.0	30.1	19.1	16.4	16.4	13.7	8.2	2.7	0.0	0.0
77.5°	71.1	52.0	24.6	16.4	13.7	8.2	8.2	5.5	2.7	0.0	0.0
80°	43.8	32.8	13.7	10.9	8.2	5.5	2.7	2.7	0.0	0.0	0.0
82.5°	30.1	19.1	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
85°	19.1	8.2	5.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.5	2.7	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)