

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: P483369

Luminaire Tested: **IFLD-L-SA7B-827-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

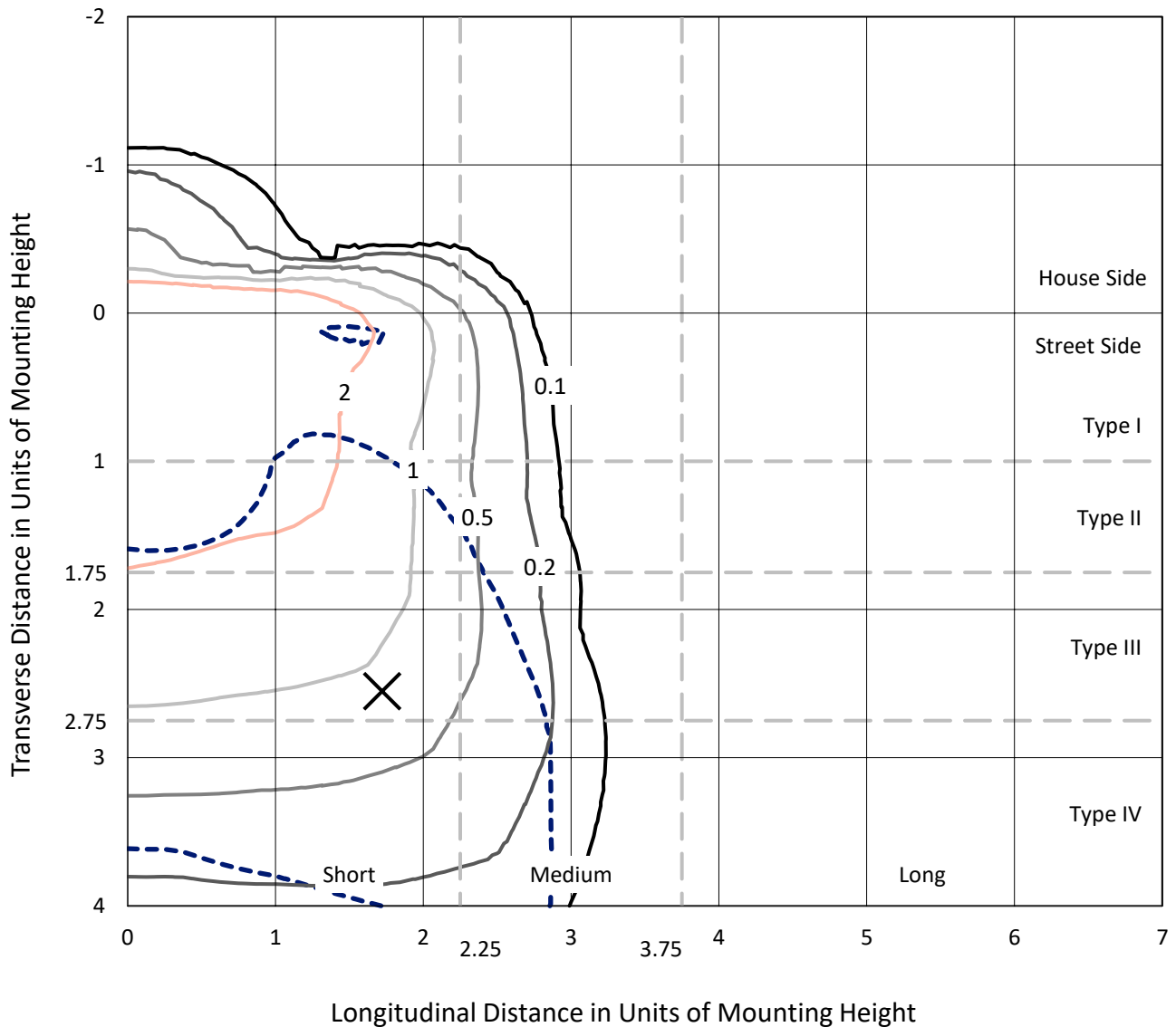
Lumens per Lamp: N/A
Luminaire Lumens: 18929.3 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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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 CATALOG NUMBER: IFLD-L-SA7B-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

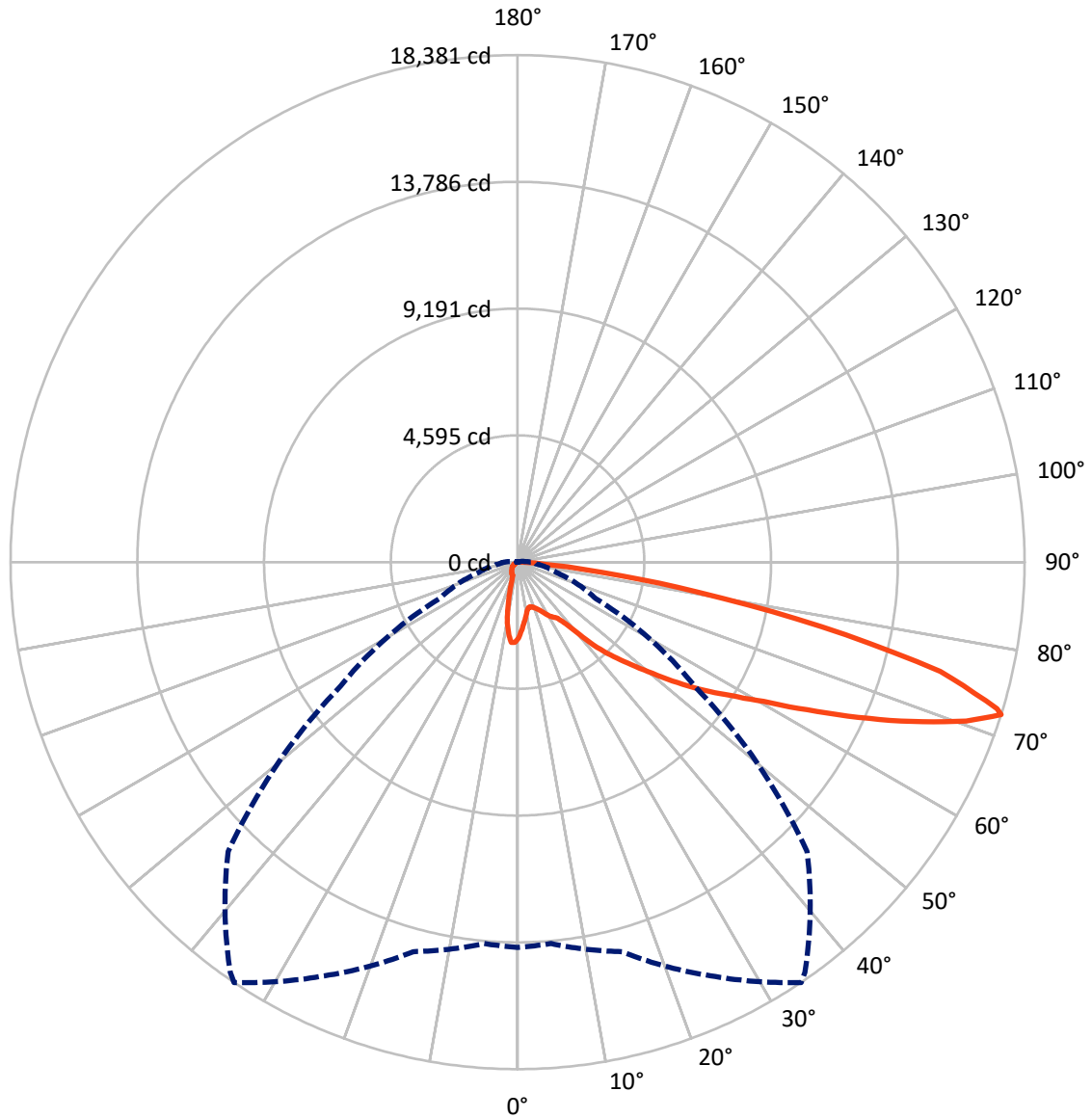
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: IFLD-L-SA7B-827-U-T4FT-HSS

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	1937.9	0.0	1937.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	16991.4	0.0	16991.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	18929.3	0.0	18929.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.3
10°-20°	544.3	2.9
20°-30°	821.5	4.3
30°-40°	1333.2	7.0
40°-50°	2507.0	13.2
50°-60°	4098.9	21.7
60°-70°	5448.9	28.8
70°-80°	3649.1	19.3
80°-90°	286.0	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°	18929.3	100.0
0°-180°	18929.3	100.0

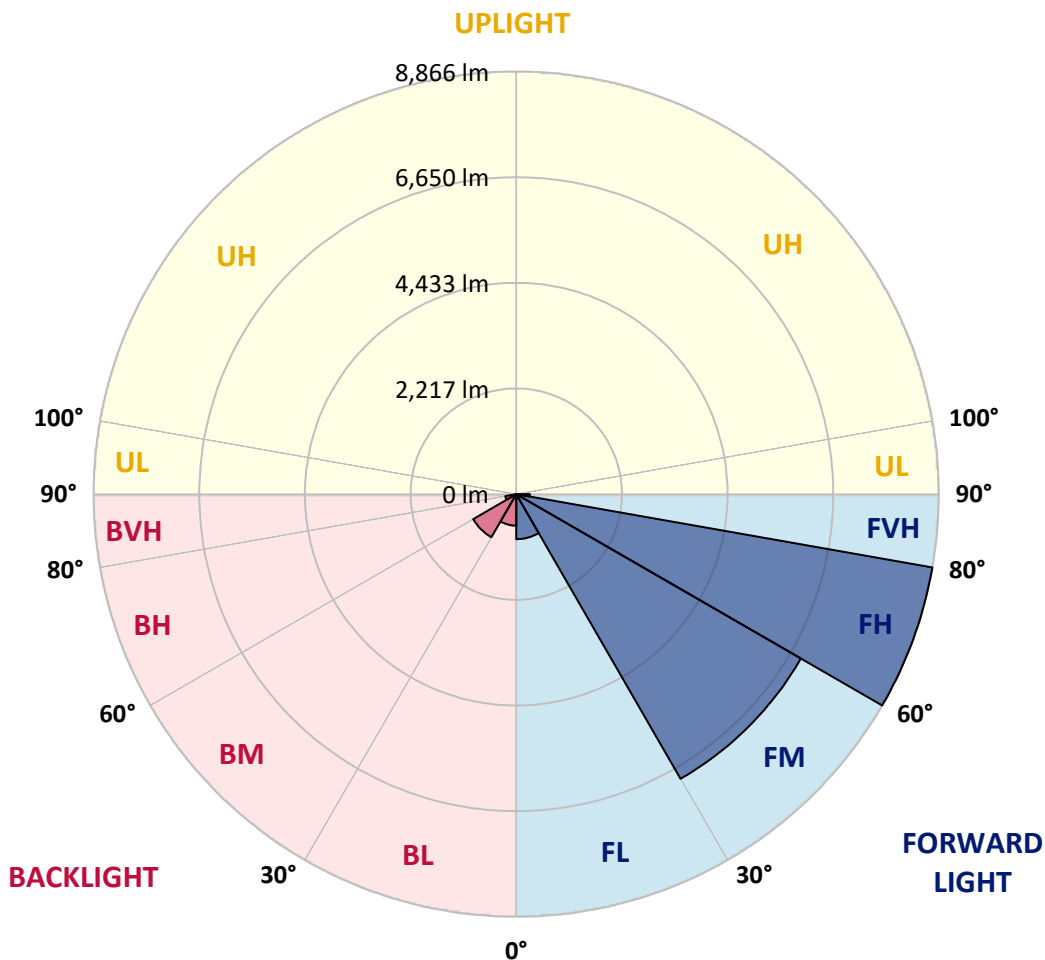


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.0	5.0			
FM (30°-60°)	6895.9	36.4			
FH (60°-80°)	8866.3	46.8			G4/12000
FVH (80°-90°)	284.2	1.5			G3/500
BL (0°-30°)	661.2	3.5	B2/1000		
BM (30°-60°)	1043.2	5.5	B2/2500		
BH (60°-80°)	231.7	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: P483369

CATALOG NUMBER: IFLD-L-SA7B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4
2.5°	2449.2	2443.7	2460.1	2487.5	2514.9	2503.9	2555.9	2610.7	2649.0	2701.0	2763.9
5°	2140.0	2153.7	2170.1	2224.8	2260.4	2268.6	2364.4	2435.5	2553.2	2673.6	2785.8
7.5°	1858.1	1874.5	1907.4	1967.6	2041.5	2060.6	2156.4	2298.7	2451.9	2610.7	2794.0
10°	1652.9	1669.3	1704.9	1743.2	1841.7	1841.7	1973.0	2170.1	2369.8	2555.9	2796.7
12.5°	1609.1	1617.3	1614.6	1644.7	1707.6	1721.3	1849.9	2066.1	2298.7	2536.8	2840.5
15°	1661.1	1666.5	1639.2	1622.8	1677.5	1691.2	1811.6	2003.1	2252.2	2547.7	2911.7
17.5°	1765.1	1745.9	1691.2	1666.5	1713.1	1721.3	1833.5	2000.4	2246.7	2577.8	2993.8
20°	1825.3	1847.2	1751.4	1704.9	1770.5	1781.5	1901.9	2044.2	2274.1	2629.8	3108.7
22.5°	1932.0	1942.9	1814.3	1784.2	1847.2	1847.2	1984.0	2131.8	2339.7	2714.6	3245.5
25°	2082.5	2068.8	1918.3	1888.2	1948.4	1973.0	2109.9	2271.3	2441.0	2794.0	3371.4
27.5°	2200.2	2208.4	2085.2	2005.9	2107.1	2123.6	2271.3	2421.8	2517.6	2859.7	3524.7
30°	2375.3	2358.9	2227.5	2137.2	2263.1	2265.9	2408.1	2564.1	2665.4	2977.3	3754.5
32.5°	2583.3	2550.4	2399.9	2271.3	2372.6	2397.2	2542.2	2769.4	2895.3	3199.0	4110.3
35°	3023.9	2944.5	2698.2	2498.5	2506.7	2517.6	2742.0	3067.7	3212.7	3480.9	4586.4
37.5°	3667.0	3634.1	3355.0	2974.6	2829.6	2796.7	3048.5	3461.7	3642.3	3853.0	5204.9
40°	4304.6	4258.0	3998.1	3710.7	3448.0	3382.4	3508.2	3984.4	4148.6	4370.2	5839.8
42.5°	5013.3	4931.2	4624.7	4392.1	4227.9	4156.8	4107.5	4641.2	4827.2	4977.8	6461.0
45°	5730.3	5596.2	5152.9	4975.0	4887.4	4849.1	4843.7	5467.6	5579.8	5609.9	7150.6
47.5°	6359.7	6214.7	5812.4	5612.6	5547.0	5536.0	5842.5	6419.9	6332.3	6253.0	7919.5
50°	6844.1	6751.0	6461.0	6389.8	6340.5	6321.4	7038.4	7399.6	6994.6	6855.0	8595.5
52.5°	7593.9	7385.9	7057.5	7082.1	7254.6	7257.3	8250.6	8330.0	7544.6	7268.2	9233.1
55°	8193.2	8056.4	7788.2	7752.6	8206.9	8256.1	9337.1	9036.0	7851.1	7662.3	9468.4
57.5°	8899.2	8836.3	8642.0	8647.4	9123.6	9227.6	10303.1	9632.6	8105.6	7916.8	9504.0
60°	9919.9	9739.3	9638.1	9684.6	10245.6	10346.8	11238.9	10062.2	8228.8	8083.7	9416.4
62.5°	11047.4	10836.7	10727.2	10965.3	11783.5	11799.9	11950.4	10442.6	8152.1	8127.5	8852.7
65°	12404.7	12196.7	12109.2	12588.1	13559.5	13499.3	12949.3	10604.1	7908.6	7686.9	7372.2
67.5°	13756.6	13630.7	13450.1	14213.6	15423.1	15423.1	13986.4	10543.9	7271.0	6170.9	4821.8
70°	14396.9	14484.5	14771.8	15970.4	17253.8	17122.5	15009.9	9851.5	5412.9	3313.9	1896.4
72°	13970.0	13879.7	14621.3	16545.1	18381.3	18165.1	14837.5	7832.0	3127.9	1453.1	659.5
72.5°	13236.6	13321.4	14342.2	16465.7	18170.6	18348.5	14416.1	7224.4	2572.3	1157.6	498.0
75°	8116.6	8261.6	10705.3	13981.0	15833.6	15633.8	11151.4	3442.6	987.9	492.6	177.9
77.5°	2963.7	3084.1	5193.9	8798.0	11260.8	11135.0	6452.7	1223.2	536.4	366.7	90.3
80°	771.7	834.6	1765.1	4058.3	6622.4	6630.6	2701.0	489.8	364.0	301.0	54.7
82.5°	153.2	169.7	541.8	1579.0	3095.0	3054.0	853.8	262.7	273.7	246.3	38.3
85°	19.2	24.6	114.9	536.4	1001.6	897.6	210.7	131.4	202.5	191.6	24.6
87.5°	2.7	2.7	27.4	123.1	210.7	205.2	43.8	41.0	90.3	117.7	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: P483369

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4	2769.4
2.5°	2799.5	2810.4	2848.7	2881.6	2919.9	2930.8	2914.4	2941.8	2903.5	2925.4	2930.8
5°	2804.9	2867.9	2939.0	2985.6	2974.6	2947.2	2925.4	2851.5	2799.5	2780.3	2821.4
7.5°	2843.3	2914.4	2991.0	2991.0	2930.8	2788.5	2651.7	2520.3	2410.9	2356.2	2402.7
10°	2892.5	2966.4	3045.8	2941.8	2717.4	2457.4	2263.1	2016.8	1849.9	1762.3	1770.5
12.5°	2958.2	3062.2	3089.5	2848.7	2476.6	2090.7	1737.7	1395.6	1236.9	1111.0	1113.8
15°	3043.0	3144.3	3062.2	2646.2	2170.1	1600.9	1176.7	851.1	725.2	659.5	659.5
17.5°	3155.2	3231.8	3054.0	2460.1	1756.9	1094.6	722.4	574.7	547.3	536.4	536.4
20°	3286.6	3344.0	2974.6	2170.1	1305.3	703.3	530.9	514.5	517.2	511.7	511.7
22.5°	3434.4	3453.5	2884.3	1833.5	883.9	519.9	495.3	498.0	500.8	495.3	498.0
25°	3590.3	3538.3	2753.0	1439.4	588.4	473.4	478.9	484.4	487.1	489.8	489.8
27.5°	3765.5	3661.5	2569.6	1053.6	459.7	446.1	462.5	478.9	481.6	481.6	478.9
30°	4022.7	3850.3	2391.7	714.2	405.0	416.0	443.3	462.5	476.2	476.2	473.4
32.5°	4348.4	4047.3	2142.7	487.1	374.9	380.4	402.3	440.6	470.7	473.4	465.2
35°	4799.9	4285.4	1882.7	388.6	353.0	355.7	369.4	399.5	451.5	467.9	465.2
37.5°	5276.0	4556.3	1559.8	350.3	336.6	333.9	342.1	366.7	413.2	454.3	457.0
40°	5782.3	4840.9	1220.5	331.1	322.9	317.4	320.2	331.1	366.7	418.7	429.6
42.5°	6258.5	5098.2	916.7	312.0	309.2	303.8	303.8	306.5	325.6	361.2	366.7
45°	6772.9	5308.9	697.8	298.3	290.1	292.8	281.9	276.4	290.1	292.8	290.1
47.5°	7254.6	5519.6	558.3	281.9	273.7	273.7	260.0	249.0	249.0	224.4	221.7
50°	7706.1	5634.5	446.1	260.0	257.2	254.5	235.3	216.2	199.8	169.7	164.2
52.5°	8081.0	5629.1	344.8	232.6	240.8	232.6	202.5	175.1	150.5	123.1	117.7
55°	8193.2	5366.3	260.0	191.6	205.2	194.3	161.5	136.8	109.5	87.6	84.8
57.5°	8097.4	4966.8	197.0	147.8	158.7	147.8	123.1	101.3	76.6	60.2	54.7
60°	7777.2	4498.9	153.2	114.9	120.4	112.2	93.0	76.6	54.7	38.3	32.8
62.5°	7169.7	3913.2	117.7	90.3	87.6	87.6	71.1	57.5	38.3	21.9	19.2
65°	5883.5	3051.2	90.3	62.9	62.9	62.9	54.7	41.0	24.6	10.9	5.5
67.5°	3694.3	1776.0	73.9	49.3	46.5	46.5	38.3	27.4	13.7	2.7	0.0
70°	1390.2	651.3	57.5	38.3	35.6	35.6	27.4	16.4	8.2	0.0	0.0
72°	478.9	249.0	46.5	27.4	27.4	24.6	19.2	13.7	5.5	0.0	0.0
72.5°	394.1	199.8	43.8	27.4	24.6	24.6	19.2	13.7	5.5	0.0	0.0
75°	142.3	82.1	30.1	19.2	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	19.2	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
85°	19.2	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)