

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: P483171

Luminaire Tested: **IFLD-M-SA4D-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

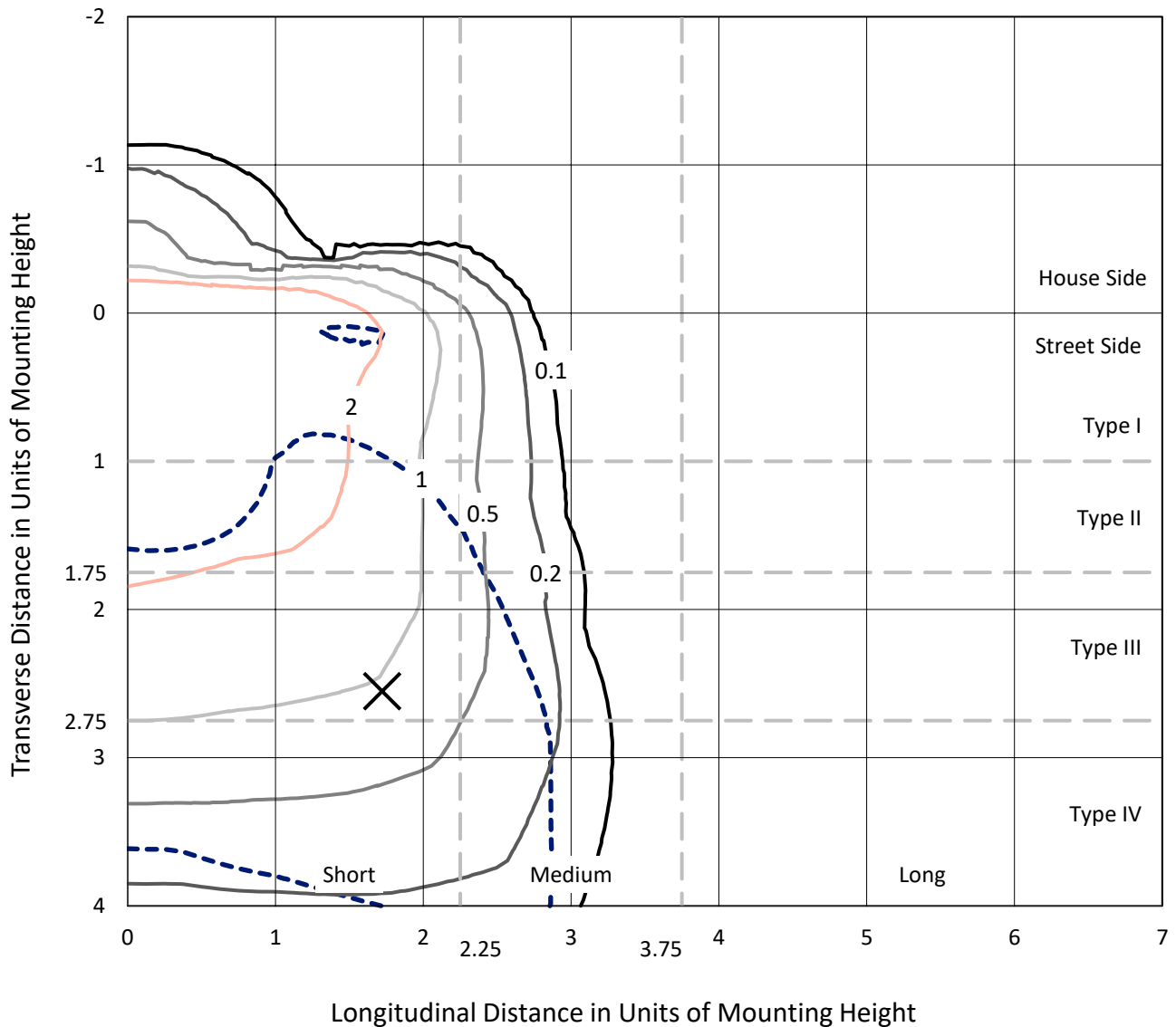
Lumens per Lamp: N/A
Luminaire Lumens: 20598.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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: P483171
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

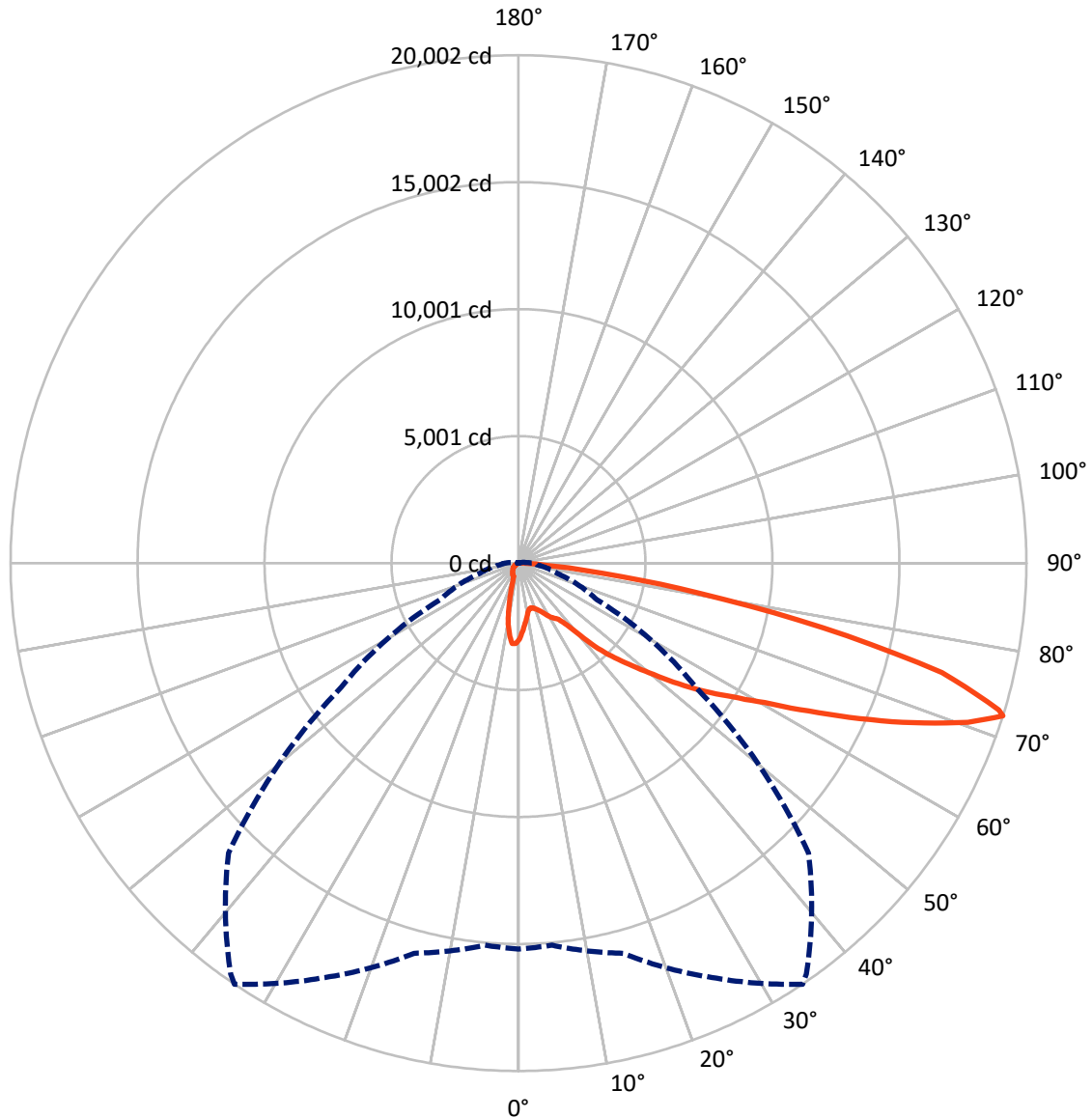
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483171
CATALOG NUMBER: IFLD-M-SA4D-730-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483171
 CATALOG NUMBER: IFLD-M-SA4D-730-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.8	0.0	2108.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18489.9	0.0	18489.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	20598.7	0.0	20598.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.3
10°-20°	592.3	2.9
20°-30°	894.0	4.3
30°-40°	1450.7	7.0
40°-50°	2728.1	13.2
50°-60°	4460.4	21.7
60°-70°	5929.5	28.8
70°-80°	3970.9	19.3
80°-90°	311.2	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°	20598.7	100.0
0°-180°	20598.7	100.0

Coefficient of Utilization



REPORT NUMBER: P483171

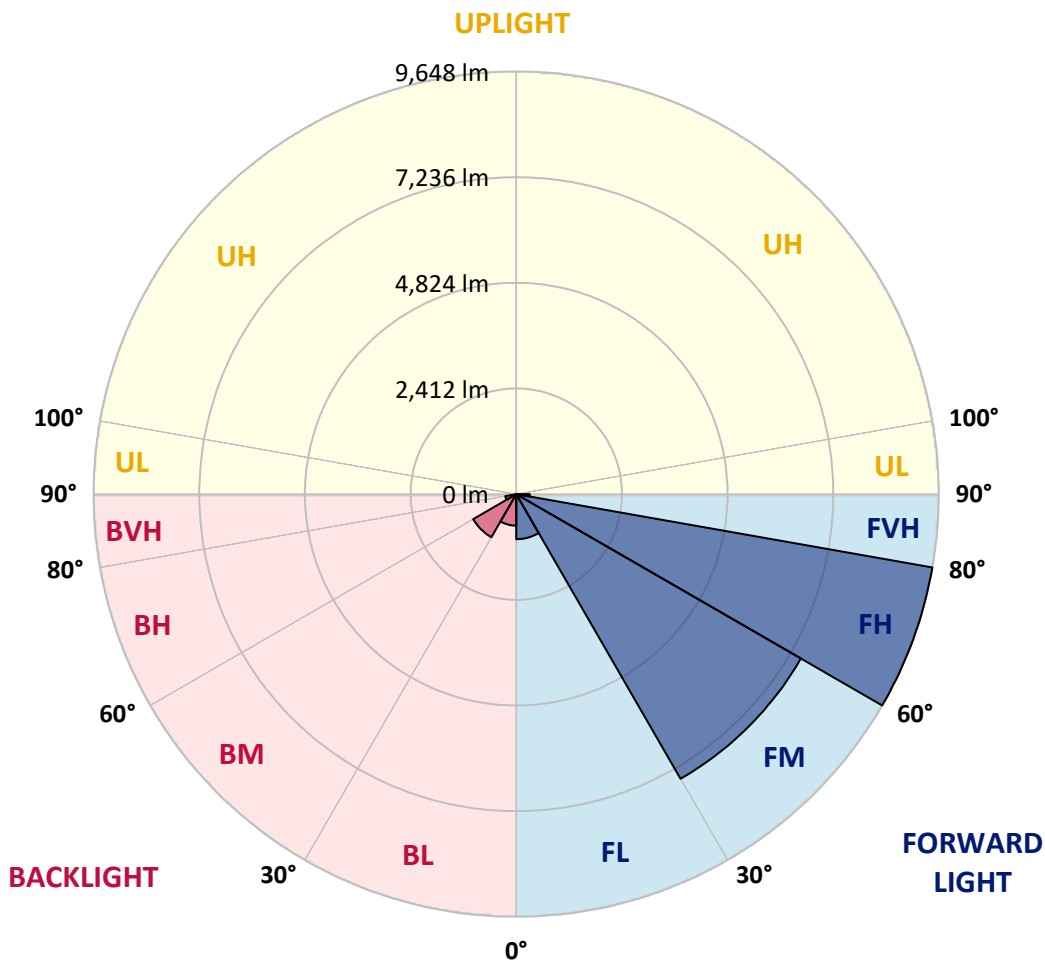
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.3	5.0			
FM (30°-60°)	7504.1	36.4			
FH (60°-80°)	9648.3	46.8			G4/12000
FVH (80°-90°)	309.2	1.5			G3/500
BL (0°-30°)	719.5	3.5	B2/1000		
BM (30°-60°)	1135.2	5.5	B2/2500		
BH (60°-80°)	252.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	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: P483171

CATALOG NUMBER: IFLD-M-SA4D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6
2.5°	2665.2	2659.2	2677.1	2706.9	2736.7	2724.8	2781.3	2840.9	2882.6	2939.2	3007.7
5°	2328.7	2343.6	2361.5	2421.0	2459.7	2468.7	2572.9	2650.3	2778.4	2909.4	3031.5
7.5°	2022.0	2039.8	2075.6	2141.1	2221.5	2242.3	2346.6	2501.4	2668.2	2840.9	3040.4
10°	1798.6	1816.5	1855.2	1896.9	2004.1	2004.1	2147.0	2361.5	2578.8	2781.3	3043.4
12.5°	1751.0	1759.9	1756.9	1789.7	1858.2	1873.1	2013.0	2248.3	2501.4	2760.5	3091.0
15°	1807.6	1813.5	1783.7	1765.9	1825.4	1840.3	1971.4	2179.8	2450.8	2772.4	3168.5
17.5°	1920.7	1899.9	1840.3	1813.5	1864.1	1873.1	1995.2	2176.8	2444.8	2805.2	3257.8
20°	1986.2	2010.1	1905.8	1855.2	1926.7	1938.6	2069.6	2224.5	2474.6	2861.7	3382.9
22.5°	2102.4	2114.3	1974.3	1941.6	2010.1	2010.1	2159.0	2319.8	2546.1	2954.0	3531.8
25°	2266.2	2251.3	2087.5	2054.7	2120.2	2147.0	2295.9	2471.6	2656.3	3040.4	3668.7
27.5°	2394.2	2403.1	2269.1	2182.8	2293.0	2310.8	2471.6	2635.4	2739.6	3111.9	3835.5
30°	2584.8	2566.9	2424.0	2325.7	2462.7	2465.7	2620.5	2790.3	2900.4	3239.9	4085.6
32.5°	2811.1	2775.4	2611.6	2471.6	2581.8	2608.6	2766.4	3013.6	3150.6	3481.1	4472.8
35°	3290.5	3204.2	2936.2	2718.8	2727.7	2739.6	2983.8	3338.2	3496.0	3787.9	4990.9
37.5°	3990.3	3954.6	3650.9	3236.9	3079.1	3043.4	3317.3	3767.0	3963.5	4192.8	5663.9
40°	4684.2	4633.6	4350.7	4038.0	3752.1	3680.6	3817.6	4335.8	4514.5	4755.7	6354.8
42.5°	5455.5	5366.1	5032.6	4779.5	4600.8	4523.4	4469.8	5050.5	5253.0	5416.7	7030.8
45°	6235.7	6089.7	5607.3	5413.8	5318.5	5276.8	5270.8	5949.8	6071.9	6104.6	7781.2
47.5°	6920.6	6762.7	6325.0	6107.6	6036.1	6024.2	6357.8	6986.1	6890.8	6804.4	8618.0
50°	7447.7	7346.4	7030.8	6953.3	6899.7	6878.9	7659.1	8052.2	7611.4	7459.6	9353.5
52.5°	8263.6	8037.3	7679.9	7706.7	7894.3	7897.3	8978.3	9064.6	8210.0	7909.2	10047.3
55°	8915.7	8766.9	8475.0	8436.3	8930.6	8984.2	10160.5	9832.9	8543.5	8338.0	10303.4
57.5°	9684.0	9615.5	9404.1	9410.1	9928.2	10041.4	11211.7	10482.1	8820.5	8615.0	10342.1
60°	10794.8	10598.2	10488.1	10538.7	11149.2	11259.3	12230.1	10949.6	8954.5	8796.6	10246.9
62.5°	12021.7	11792.4	11673.3	11932.3	12822.7	12840.6	13004.4	11363.6	8871.1	8844.3	9633.4
65°	13498.7	13272.4	13177.1	13698.2	14755.4	14689.8	14091.3	11539.3	8606.0	8364.8	8022.4
67.5°	14969.8	14832.8	14636.2	15467.1	16783.3	16783.3	15219.9	11473.7	7912.2	6715.1	5247.0
70°	15666.6	15761.9	16074.6	17378.9	18775.5	18632.5	16333.6	10720.3	5890.2	3606.2	2063.7
72°	15202.0	15103.8	15910.8	18004.2	20002.4	19767.1	16146.0	8522.7	3403.7	1581.2	717.7
72.5°	14404.0	14496.3	15607.0	17917.9	19773.1	19966.6	15687.4	7861.6	2799.2	1259.6	542.0
75°	8832.4	8990.2	11649.4	15213.9	17230.0	17012.6	12134.8	3746.2	1075.0	536.0	193.6
77.5°	3225.0	3356.1	5652.0	9573.9	12253.9	12117.0	7021.8	1331.1	583.7	399.0	98.3
80°	839.8	908.3	1920.7	4416.2	7206.4	7215.4	2939.2	533.0	396.1	327.6	59.6
82.5°	166.8	184.6	589.6	1718.2	3368.0	3323.3	929.1	285.9	297.8	268.0	41.7
85°	20.8	26.8	125.1	583.7	1089.9	976.7	229.3	142.9	220.4	208.5	26.8
87.5°	3.0	3.0	29.8	134.0	229.3	223.3	47.6	44.7	98.3	128.0	14.9
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: P483171

CATALOG NUMBER: IFLD-M-SA4D-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6	3013.6
2.5°	3046.4	3058.3	3100.0	3135.7	3177.4	3189.3	3171.4	3201.2	3159.5	3183.3	3189.3
5°	3052.3	3120.8	3198.2	3248.9	3236.9	3207.2	3183.3	3102.9	3046.4	3025.5	3070.2
7.5°	3094.0	3171.4	3254.8	3254.8	3189.3	3034.5	2885.6	2742.6	2623.5	2563.9	2614.6
10°	3147.6	3228.0	3314.4	3201.2	2957.0	2674.1	2462.7	2194.7	2013.0	1917.7	1926.7
12.5°	3219.1	3332.2	3362.0	3100.0	2695.0	2275.1	1890.9	1518.7	1346.0	1209.0	1212.0
15°	3311.4	3421.6	3332.2	2879.6	2361.5	1742.1	1280.5	926.1	789.1	717.7	717.7
17.5°	3433.5	3516.9	3323.3	2677.1	1911.8	1191.1	786.2	625.4	595.6	583.7	583.7
20°	3576.4	3639.0	3236.9	2361.5	1420.4	765.3	577.7	559.8	562.8	556.9	556.9
22.5°	3737.2	3758.1	3138.7	1995.2	961.9	565.8	539.0	542.0	545.0	539.0	542.0
25°	3907.0	3850.4	2995.7	1566.4	640.2	515.2	521.1	527.1	530.1	533.0	533.0
27.5°	4097.6	3984.4	2796.2	1146.5	500.3	485.4	503.3	521.1	524.1	524.1	521.1
30°	4377.5	4189.9	2602.7	777.2	440.7	452.6	482.4	503.3	518.1	518.1	515.2
32.5°	4731.8	4404.3	2331.7	530.1	408.0	413.9	437.7	479.4	512.2	515.2	506.2
35°	5223.2	4663.3	2048.8	422.9	384.1	387.1	402.0	434.8	491.3	509.2	506.2
37.5°	5741.3	4958.2	1697.4	381.2	366.3	363.3	372.2	399.0	449.7	494.3	497.3
40°	6292.2	5267.9	1328.1	360.3	351.4	345.4	348.4	360.3	399.0	455.6	467.5
42.5°	6810.4	5547.8	997.6	339.5	336.5	330.5	330.5	333.5	354.4	393.1	399.0
45°	7370.2	5777.1	759.4	324.6	315.7	318.6	306.7	300.8	315.7	318.6	315.7
47.5°	7894.3	6006.4	607.5	306.7	297.8	297.8	282.9	271.0	271.0	244.2	241.2
50°	8385.7	6131.4	485.4	282.9	279.9	276.9	256.1	235.3	217.4	184.6	178.7
52.5°	8793.7	6125.5	375.2	253.1	262.1	253.1	220.4	190.6	163.8	134.0	128.0
55°	8915.7	5839.6	282.9	208.5	223.3	211.4	175.7	148.9	119.1	95.3	92.3
57.5°	8811.5	5404.8	214.4	160.8	172.7	160.8	134.0	110.2	83.4	65.5	59.6
60°	8463.1	4895.6	166.8	125.1	131.0	122.1	101.2	83.4	59.6	41.7	35.7
62.5°	7802.0	4258.4	128.0	98.3	95.3	95.3	77.4	62.5	41.7	23.8	20.8
65°	6402.4	3320.3	98.3	68.5	68.5	68.5	59.6	44.7	26.8	11.9	6.0
67.5°	4020.1	1932.6	80.4	53.6	50.6	50.6	41.7	29.8	14.9	3.0	0.0
70°	1512.8	708.7	62.5	41.7	38.7	38.7	29.8	17.9	8.9	0.0	0.0
72°	521.1	271.0	50.6	29.8	29.8	26.8	20.8	14.9	6.0	0.0	0.0
72.5°	428.8	217.4	47.6	29.8	26.8	26.8	20.8	14.9	6.0	0.0	0.0
75°	154.8	89.3	32.8	20.8	17.9	17.9	14.9	8.9	3.0	0.0	0.0
77.5°	77.4	56.6	26.8	17.9	14.9	8.9	8.9	6.0	3.0	0.0	0.0
80°	47.6	35.7	14.9	11.9	8.9	6.0	3.0	3.0	0.0	0.0	0.0
82.5°	32.8	20.8	8.9	8.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	8.9	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	6.0	3.0	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)