

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: P483248

Luminaire Tested: **IFLD-M-SA4C-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

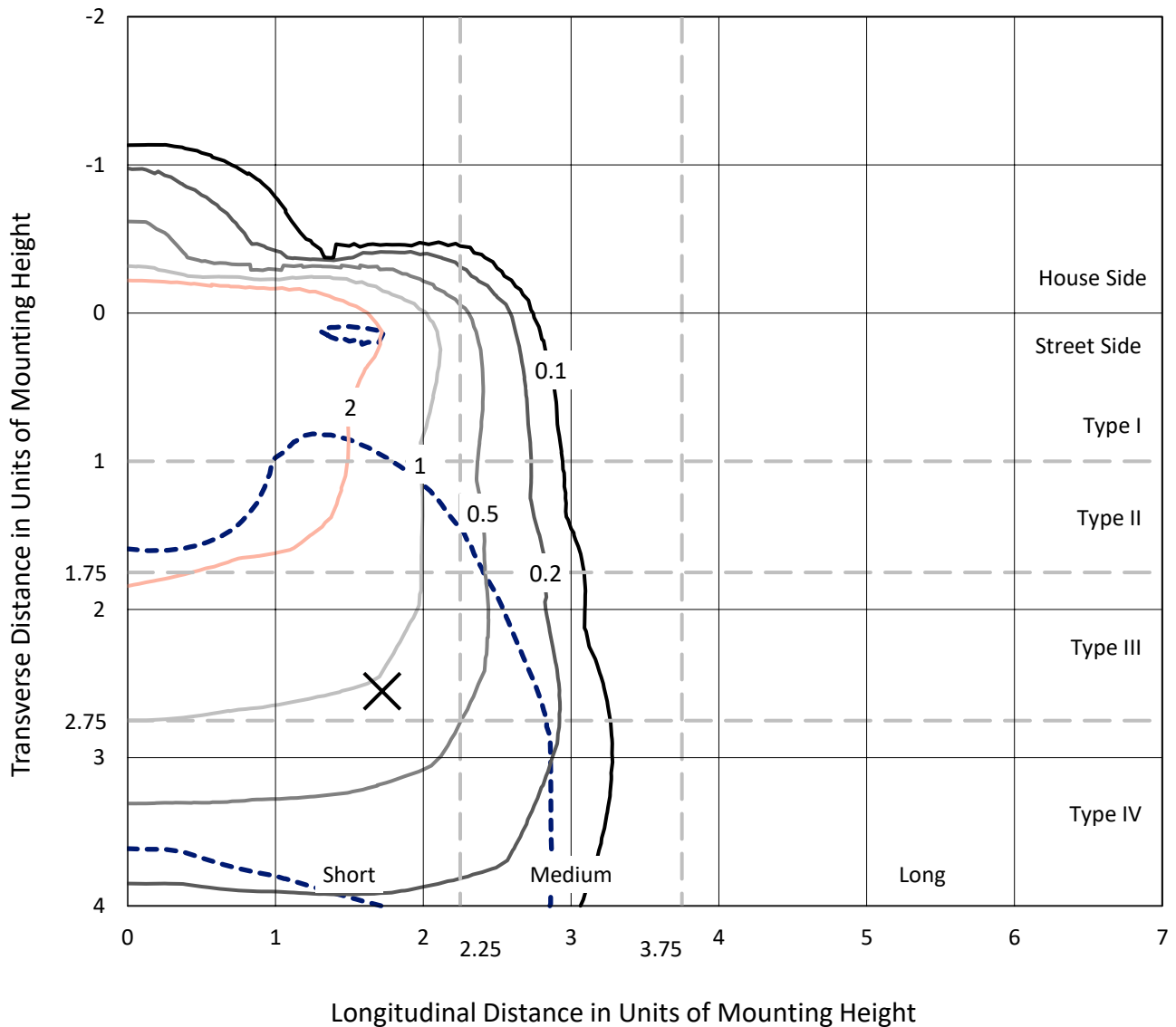
Lumens per Lamp: N/A
Luminaire Lumens: 20558.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

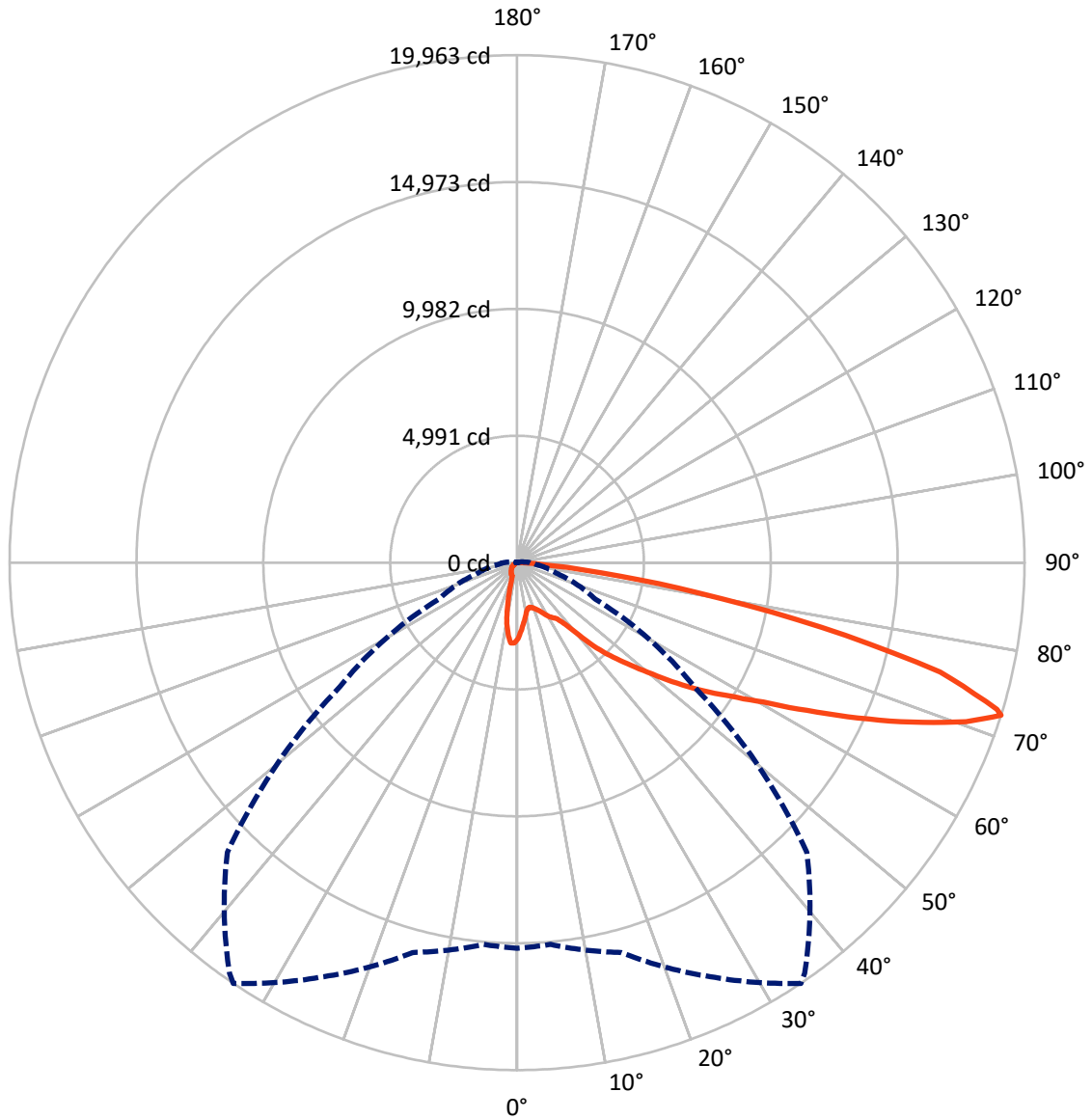
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2104.7	0.0	2104.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18453.9	0.0	18453.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	20558.6	0.0	20558.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.3
10°-20°	591.1	2.9
20°-30°	892.2	4.3
30°-40°	1447.9	7.0
40°-50°	2722.7	13.2
50°-60°	4451.7	21.7
60°-70°	5918.0	28.8
70°-80°	3963.2	19.3
80°-90°	310.6	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°	20558.6	100.0
0°-180°	20558.6	100.0



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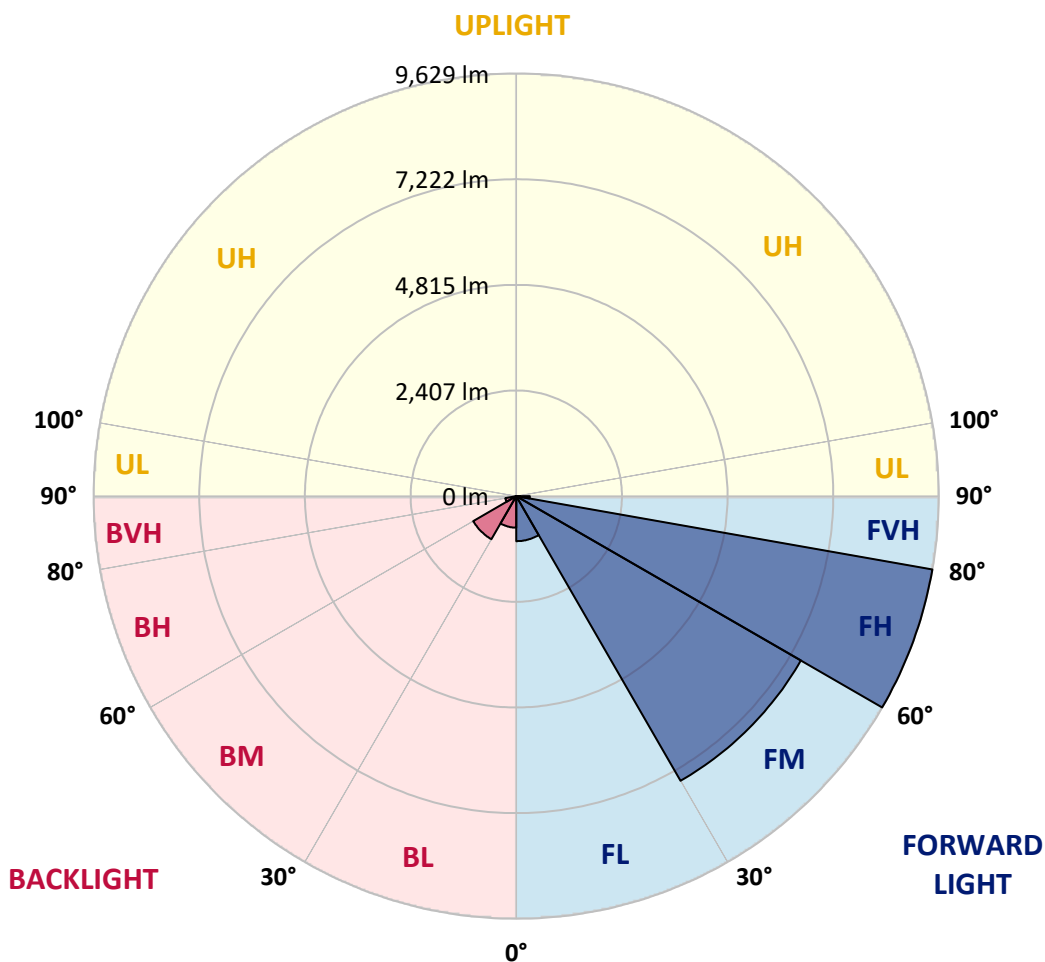
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.3	5.0			
FM (30°-60°)	7489.5	36.4			
FH (60°-80°)	9629.5	46.8			G4/12000
FVH (80°-90°)	308.6	1.5			G3/500
BL (0°-30°)	718.1	3.5	B2/1000		
BM (30°-60°)	1132.9	5.5	B2/2500		
BH (60°-80°)	251.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	2660.0	2654.1	2671.9	2701.6	2731.3	2719.4	2775.9	2835.4	2877.0	2933.4	3001.8
5°	2324.2	2339.0	2356.9	2416.3	2454.9	2463.8	2567.9	2645.1	2772.9	2903.7	3025.6
7.5°	2018.0	2035.9	2071.5	2136.9	2217.2	2238.0	2342.0	2496.5	2663.0	2835.4	3034.5
10°	1795.1	1813.0	1851.6	1893.2	2000.2	2000.2	2142.9	2356.9	2573.8	2775.9	3037.5
12.5°	1747.6	1756.5	1753.5	1786.2	1854.6	1869.4	2009.1	2243.9	2496.5	2755.1	3085.0
15°	1804.0	1810.0	1780.3	1762.4	1821.9	1836.7	1967.5	2175.6	2446.0	2767.0	3162.3
17.5°	1917.0	1896.2	1836.7	1810.0	1860.5	1869.4	1991.3	2172.6	2440.1	2799.7	3251.4
20°	1982.4	2006.2	1902.1	1851.6	1922.9	1934.8	2065.6	2220.1	2469.8	2856.2	3376.3
22.5°	2098.3	2110.2	1970.5	1937.8	2006.2	2006.2	2154.8	2315.2	2541.1	2948.3	3524.9
25°	2261.7	2246.9	2083.4	2050.7	2116.1	2142.9	2291.5	2466.8	2651.1	3034.5	3661.6
27.5°	2389.5	2398.5	2264.7	2178.5	2288.5	2306.3	2466.8	2630.3	2734.3	3105.8	3828.0
30°	2579.8	2561.9	2419.3	2321.2	2457.9	2460.9	2615.4	2784.8	2894.8	3233.6	4077.7
32.5°	2805.6	2770.0	2606.5	2466.8	2576.8	2603.5	2761.1	3007.7	3144.5	3474.4	4464.1
35°	3284.1	3198.0	2930.5	2713.5	2722.4	2734.3	2978.0	3331.7	3489.2	3780.5	4981.2
37.5°	3982.6	3946.9	3643.8	3230.6	3073.1	3037.5	3310.9	3759.7	3955.8	4184.7	5652.9
40°	4675.1	4624.5	4342.2	4030.1	3744.8	3673.5	3810.2	4327.3	4505.7	4746.4	6342.4
42.5°	5444.8	5355.7	5022.8	4770.2	4591.9	4514.6	4461.1	5040.6	5242.7	5406.2	7017.1
45°	6223.5	6077.9	5596.4	5403.2	5308.1	5266.5	5260.6	5938.2	6060.1	6092.8	7766.0
47.5°	6907.1	6749.6	6312.7	6095.7	6024.4	6012.5	6345.4	6972.5	6877.4	6791.2	8601.2
50°	7433.2	7332.1	7017.1	6939.8	6886.3	6865.5	7644.2	8036.5	7596.6	7445.0	9335.3
52.5°	8247.5	8021.6	7665.0	7691.7	7879.0	7881.9	8960.8	9047.0	8194.0	7893.8	10027.8
55°	8898.4	8749.8	8458.5	8419.9	8913.3	8966.7	10140.7	9813.8	8526.9	8321.8	10283.4
57.5°	9665.2	9596.8	9385.8	9391.8	9908.9	10021.8	11189.9	10461.7	8803.3	8598.2	10322.0
60°	10773.8	10577.6	10467.6	10518.2	11127.4	11237.4	12206.3	10928.3	8937.0	8779.5	10226.9
62.5°	11998.3	11769.4	11650.5	11909.1	12797.8	12815.6	12979.0	11341.4	8853.8	8827.1	9614.7
65°	13472.4	13246.5	13151.4	13671.5	14726.6	14661.2	14063.9	11516.8	8589.3	8348.6	8006.8
67.5°	14940.6	14803.9	14607.7	15437.0	16750.6	16750.6	15190.3	11451.4	7896.8	6702.0	5236.8
70°	15636.1	15731.2	16043.3	17345.0	18738.9	18596.3	16301.8	10699.5	5878.8	3599.2	2059.6
72°	15172.4	15074.4	15879.8	17969.2	19963.4	19728.6	16114.6	8506.1	3397.1	1578.2	716.3
72.5°	14375.9	14468.1	15576.6	17883.0	19734.6	19927.8	15656.9	7846.3	2793.7	1257.2	540.9
75°	8815.2	8972.7	11626.8	15184.3	17196.4	16979.5	12111.2	3738.9	1072.9	535.0	193.2
77.5°	3218.8	3349.5	5641.0	9555.2	12230.1	12093.4	7008.2	1328.5	582.5	398.3	98.1
80°	838.1	906.5	1917.0	4407.6	7192.4	7201.3	2933.4	532.0	395.3	326.9	59.4
82.5°	166.4	184.3	588.5	1714.9	3361.4	3316.8	927.3	285.3	297.2	267.5	41.6
85°	20.8	26.7	124.8	582.5	1087.8	974.8	228.8	142.7	219.9	208.0	26.7
87.5°	3.0	3.0	29.7	133.7	228.8	222.9	47.6	44.6	98.1	127.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	3040.4	3052.3	3093.9	3129.6	3171.2	3183.1	3165.3	3195.0	3153.4	3177.1	3183.1
5°	3046.4	3114.7	3192.0	3242.5	3230.6	3200.9	3177.1	3096.9	3040.4	3019.6	3064.2
7.5°	3088.0	3165.3	3248.5	3248.5	3183.1	3028.5	2879.9	2737.3	2618.4	2559.0	2609.5
10°	3141.5	3221.7	3307.9	3195.0	2951.3	2668.9	2457.9	2190.4	2009.1	1914.0	1922.9
12.5°	3212.8	3325.8	3355.5	3093.9	2689.7	2270.7	1887.3	1515.8	1343.4	1206.7	1209.6
15°	3304.9	3414.9	3325.8	2874.0	2356.9	1738.7	1278.0	924.3	787.6	716.3	716.3
17.5°	3426.8	3510.0	3316.8	2671.9	1908.1	1188.8	784.6	624.1	594.4	582.5	582.5
20°	3569.5	3631.9	3230.6	2356.9	1417.7	763.8	576.6	558.7	561.7	555.8	555.8
22.5°	3730.0	3750.8	3132.6	1991.3	960.0	564.7	537.9	540.9	543.9	537.9	540.9
25°	3899.4	3842.9	2989.9	1563.3	639.0	514.2	520.1	526.1	529.0	532.0	532.0
27.5°	4089.6	3976.6	2790.8	1144.2	499.3	484.4	502.3	520.1	523.1	523.1	520.1
30°	4368.9	4181.7	2597.6	775.7	439.9	451.8	481.5	502.3	517.1	517.1	514.2
32.5°	4722.6	4395.7	2327.1	529.0	407.2	413.1	436.9	478.5	511.2	514.2	505.3
35°	5213.0	4654.3	2044.8	422.0	383.4	386.4	401.2	433.9	490.4	508.2	505.3
37.5°	5730.2	4948.5	1694.1	380.4	365.6	362.6	371.5	398.3	448.8	493.4	496.3
40°	6280.0	5257.6	1325.5	359.6	350.7	344.8	347.7	359.6	398.3	454.7	466.6
42.5°	6797.1	5537.0	995.6	338.8	335.8	329.9	329.9	332.9	353.7	392.3	398.3
45°	7355.9	5765.8	757.9	324.0	315.0	318.0	306.1	300.2	315.0	318.0	315.0
47.5°	7879.0	5994.7	606.3	306.1	297.2	297.2	282.3	270.5	270.5	243.7	240.7
50°	8369.4	6119.5	484.4	282.3	279.4	276.4	255.6	234.8	217.0	184.3	178.3
52.5°	8776.5	6113.6	374.5	252.6	261.5	252.6	219.9	190.2	163.5	133.7	127.8
55°	8898.4	5828.2	282.3	208.0	222.9	211.0	175.4	148.6	118.9	95.1	92.1
57.5°	8794.4	5394.3	214.0	160.5	172.4	160.5	133.7	110.0	83.2	65.4	59.4
60°	8446.6	4886.1	166.4	124.8	130.8	121.9	101.1	83.2	59.4	41.6	35.7
62.5°	7786.8	4250.1	127.8	98.1	95.1	95.1	77.3	62.4	41.6	23.8	20.8
65°	6390.0	3313.9	98.1	68.4	68.4	68.4	59.4	44.6	26.7	11.9	5.9
67.5°	4012.3	1928.9	80.2	53.5	50.5	50.5	41.6	29.7	14.9	3.0	0.0
70°	1509.8	707.4	62.4	41.6	38.6	38.6	29.7	17.8	8.9	0.0	0.0
72°	520.1	270.5	50.5	29.7	29.7	26.7	20.8	14.9	5.9	0.0	0.0
72.5°	428.0	217.0	47.6	29.7	26.7	26.7	20.8	14.9	5.9	0.0	0.0
75°	154.5	89.2	32.7	20.8	17.8	17.8	14.9	8.9	3.0	0.0	0.0
77.5°	77.3	56.5	26.7	17.8	14.9	8.9	8.9	5.9	3.0	0.0	0.0
80°	47.6	35.7	14.9	11.9	8.9	5.9	3.0	3.0	0.0	0.0	0.0
82.5°	32.7	20.8	8.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	8.9	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	5.9	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)