

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: P483131

Luminaire Tested: **IFLD-M-SA4C-727-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483131
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

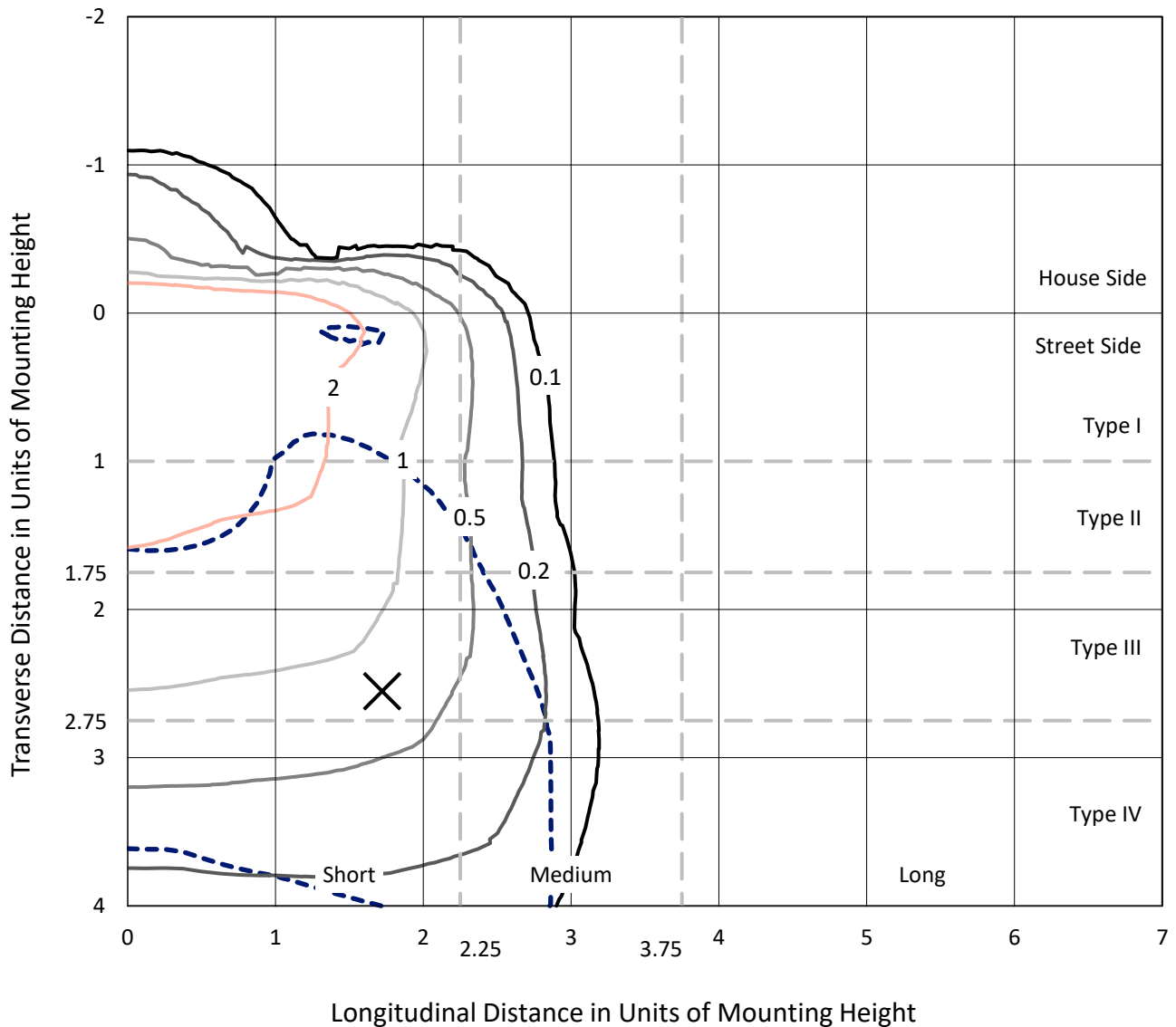
Lumens per Lamp: N/A
Luminaire Lumens: 17193.2 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

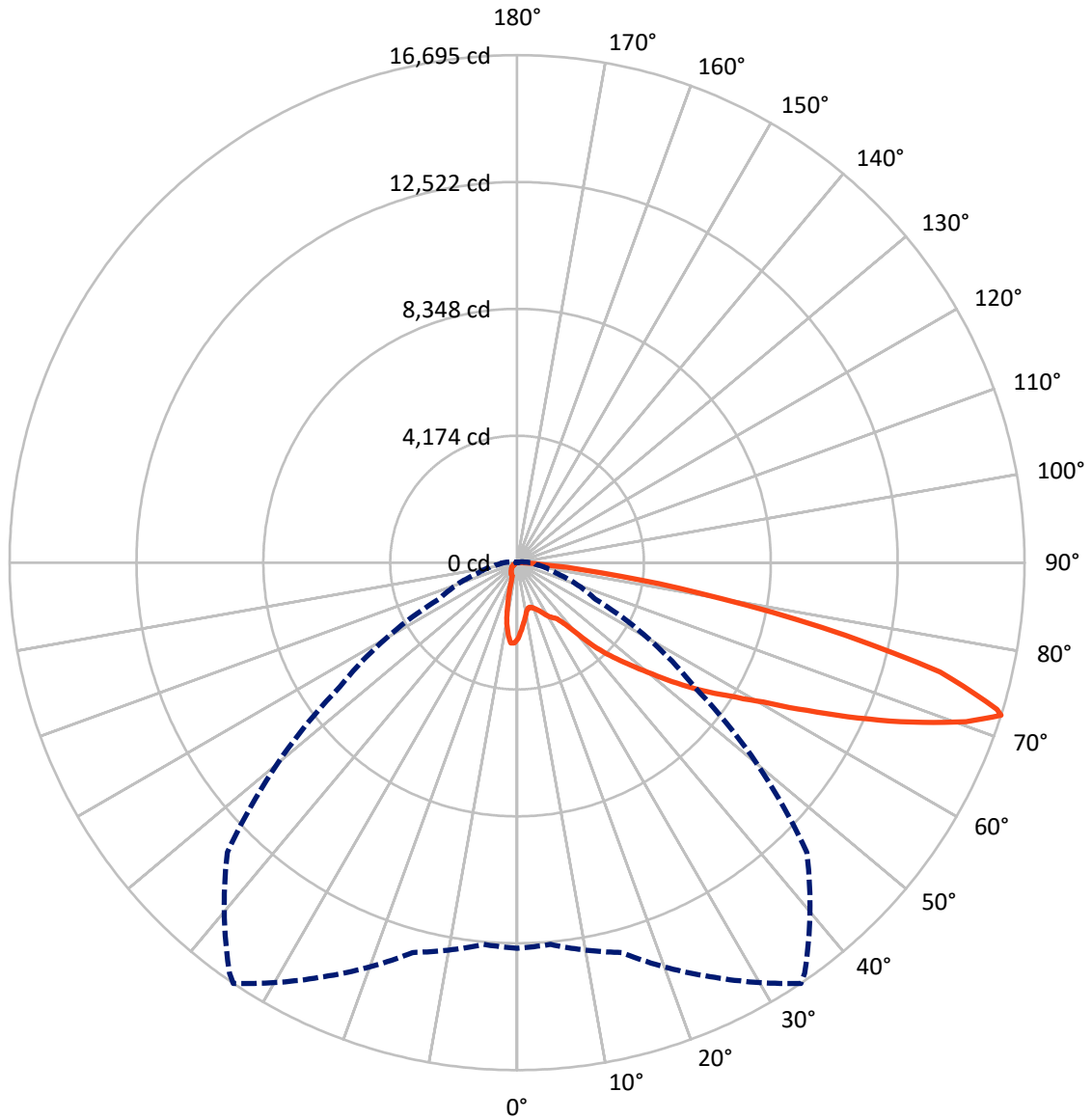
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1760.2	0.0	1760.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15433.0	0.0	15433.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	17193.2	0.0	17193.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.3
10°-20°	494.4	2.9
20°-30°	746.2	4.3
30°-40°	1210.9	7.0
40°-50°	2277.0	13.2
50°-60°	3723.0	21.7
60°-70°	4949.2	28.8
70°-80°	3314.4	19.3
80°-90°	259.7	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°	17193.2	100.0
0°-180°	17193.2	100.0

Coefficient of Utilization



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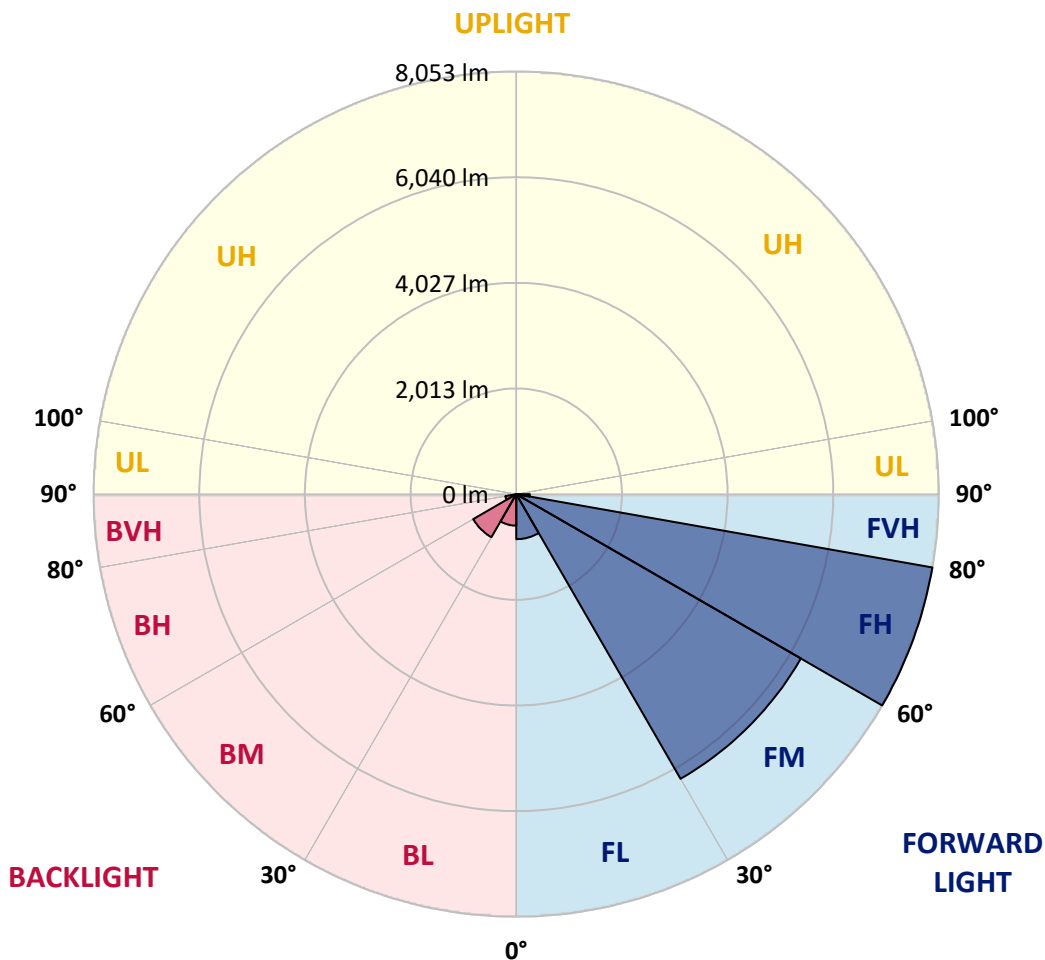
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.3	5.0			
FM (30°-60°)	6263.4	36.4			
FH (60°-80°)	8053.1	46.8			G4/12000
FVH (80°-90°)	258.1	1.5			G3/500
BL (0°-30°)	600.6	3.5	B2/1000		
BM (30°-60°)	947.5	5.5	B1/1000		
BH (60°-80°)	210.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4
2.5°	2224.6	2219.6	2234.5	2259.4	2284.2	2274.3	2321.5	2371.2	2406.0	2453.2	2510.4
5°	1943.7	1956.1	1971.0	2020.7	2053.1	2060.5	2147.5	2212.1	2319.0	2428.4	2530.3
7.5°	1687.7	1702.6	1732.4	1787.1	1854.2	1871.6	1958.6	2087.9	2227.0	2371.2	2537.7
10°	1501.3	1516.2	1548.5	1583.3	1672.8	1672.8	1792.1	1971.0	2152.5	2321.5	2540.2
12.5°	1461.5	1469.0	1466.5	1493.8	1551.0	1563.4	1680.2	1876.6	2087.9	2304.1	2580.0
15°	1508.7	1513.7	1488.8	1473.9	1523.6	1536.1	1645.4	1819.4	2045.6	2314.0	2644.6
17.5°	1603.2	1585.8	1536.1	1513.7	1556.0	1563.4	1665.3	1816.9	2040.6	2341.4	2719.2
20°	1657.9	1677.7	1590.7	1548.5	1608.1	1618.1	1727.5	1856.7	2065.5	2388.6	2823.6
22.5°	1754.8	1764.7	1647.9	1620.6	1677.7	1677.7	1802.0	1936.2	2125.1	2465.7	2947.9
25°	1891.5	1879.1	1742.4	1715.0	1769.7	1792.1	1916.4	2063.0	2217.1	2537.7	3062.2
27.5°	1998.4	2005.8	1894.0	1821.9	1913.9	1928.8	2063.0	2199.7	2286.7	2597.4	3201.4
30°	2157.5	2142.5	2023.2	1941.2	2055.5	2058.0	2187.3	2329.0	2420.9	2704.3	3410.2
32.5°	2346.4	2316.5	2179.8	2063.0	2155.0	2177.3	2309.1	2515.4	2629.7	2905.6	3733.3
35°	2746.5	2674.4	2450.7	2269.3	2276.8	2286.7	2490.5	2786.3	2918.0	3161.6	4165.8
37.5°	3330.6	3300.8	3047.3	2701.8	2570.1	2540.2	2768.9	3144.2	3308.3	3499.6	4727.5
40°	3909.8	3867.5	3631.4	3370.4	3131.8	3072.1	3186.5	3619.0	3768.1	3969.4	5304.2
42.5°	4553.5	4479.0	4200.6	3989.3	3840.2	3775.5	3730.8	4215.5	4384.5	4521.2	5868.4
45°	5204.7	5082.9	4680.3	4518.7	4439.2	4404.4	4399.4	4966.1	5068.0	5095.4	6494.7
47.5°	5776.4	5644.7	5279.3	5097.9	5038.2	5028.3	5306.6	5831.1	5751.6	5679.5	7193.2
50°	6216.3	6131.8	5868.4	5803.7	5759.0	5741.6	6392.8	6720.9	6353.1	6226.3	7807.1
52.5°	6897.4	6708.5	6410.2	6432.6	6589.2	6591.7	7493.9	7566.0	6852.6	6601.6	8386.2
55°	7441.7	7317.4	7073.9	7041.6	7454.2	7498.9	8480.7	8207.3	7131.0	6959.5	8600.0
57.5°	8083.0	8025.8	7849.4	7854.3	8286.8	8381.3	9358.1	8749.1	7362.2	7190.7	8632.3
60°	9010.1	8846.1	8754.1	8796.3	9305.9	9397.8	10208.1	9139.4	7474.0	7342.3	8552.8
62.5°	10034.1	9842.8	9743.3	9959.6	10702.8	10717.7	10854.4	9484.8	7404.4	7382.1	8040.7
65°	11267.0	11078.1	10998.5	11433.5	12315.9	12261.2	11761.6	9631.5	7183.2	6981.9	6696.1
67.5°	12494.8	12380.5	12216.5	12909.9	14008.5	14008.5	12703.6	9576.8	6604.1	5604.9	4379.5
70°	13076.5	13156.0	13417.0	14505.6	15671.4	15552.1	13633.2	8948.0	4916.4	3010.0	1722.5
72°	12688.7	12606.7	13280.3	15027.6	16695.4	16499.1	13476.6	7113.6	2841.0	1319.8	599.0
72.5°	12022.6	12099.6	13026.7	14955.5	16504.0	16665.6	13093.9	6561.8	2336.4	1051.4	452.4
75°	7372.1	7503.9	9723.5	12698.7	14381.4	14199.9	10128.6	3126.8	897.3	447.4	161.6
77.5°	2691.8	2801.2	4717.6	7991.0	10228.0	10113.7	5860.9	1111.0	487.2	333.1	82.0
80°	700.9	758.1	1603.2	3686.1	6015.0	6022.5	2453.2	444.9	330.6	273.4	49.7
82.5°	139.2	154.1	492.1	1434.2	2811.2	2773.9	775.5	238.6	248.6	223.7	34.8
85°	17.4	22.4	104.4	487.2	909.7	815.3	191.4	119.3	183.9	174.0	22.4
87.5°	2.5	2.5	24.9	111.8	191.4	186.4	39.8	37.3	82.0	106.9	12.4
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°	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4	2515.4
2.5°	2542.7	2552.7	2587.5	2617.3	2652.1	2662.0	2647.1	2672.0	2637.2	2657.0	2662.0
5°	2547.7	2604.9	2669.5	2711.7	2701.8	2676.9	2657.0	2589.9	2542.7	2525.3	2562.6
7.5°	2582.5	2647.1	2716.7	2716.7	2662.0	2532.8	2408.5	2289.2	2189.8	2140.1	2182.3
10°	2627.2	2694.3	2766.4	2672.0	2468.1	2232.0	2055.5	1831.8	1680.2	1600.7	1608.1
12.5°	2686.9	2781.3	2806.2	2587.5	2249.4	1899.0	1578.3	1267.6	1123.5	1009.1	1011.6
15°	2763.9	2855.9	2781.3	2403.5	1971.0	1454.0	1068.8	773.0	658.7	599.0	599.0
17.5°	2865.8	2935.4	2773.9	2234.5	1595.7	994.2	656.2	522.0	497.1	487.2	487.2
20°	2985.1	3037.3	2701.8	1971.0	1185.6	638.8	482.2	467.3	469.8	464.8	464.8
22.5°	3119.4	3136.8	2619.8	1665.3	802.8	472.3	449.9	452.4	454.9	449.9	452.4
25°	3261.0	3213.8	2500.5	1307.4	534.4	430.0	435.0	439.9	442.4	444.9	444.9
27.5°	3420.1	3325.7	2333.9	956.9	417.6	405.1	420.1	435.0	437.5	437.5	435.0
30°	3653.8	3497.2	2172.4	648.7	367.9	377.8	402.7	420.1	432.5	432.5	430.0
32.5°	3949.5	3676.1	1946.2	442.4	340.5	345.5	365.4	400.2	427.5	430.0	422.5
35°	4359.6	3892.4	1710.1	352.9	320.6	323.1	335.5	362.9	410.1	425.0	422.5
37.5°	4792.1	4138.4	1416.8	318.1	305.7	303.2	310.7	333.1	375.3	412.6	415.1
40°	5252.0	4396.9	1108.6	300.8	293.3	288.3	290.8	300.8	333.1	380.3	390.2
42.5°	5684.4	4630.6	832.7	283.4	280.9	275.9	275.9	278.4	295.8	328.1	333.1
45°	6151.7	4822.0	633.8	270.9	263.5	266.0	256.0	251.0	263.5	266.0	263.5
47.5°	6589.2	5013.3	507.1	256.0	248.6	248.6	236.1	226.2	226.2	203.8	201.3
50°	6999.3	5117.7	405.1	236.1	233.6	231.2	213.8	196.4	181.4	154.1	149.1
52.5°	7339.8	5112.8	313.2	211.3	218.7	211.3	183.9	159.1	136.7	111.8	106.9
55°	7441.7	4874.2	236.1	174.0	186.4	176.5	146.6	124.3	99.4	79.5	77.1
57.5°	7354.7	4511.3	179.0	134.2	144.2	134.2	111.8	92.0	69.6	54.7	49.7
60°	7063.9	4086.2	139.2	104.4	109.4	101.9	84.5	69.6	49.7	34.8	29.8
62.5°	6512.1	3554.3	106.9	82.0	79.5	79.5	64.6	52.2	34.8	19.9	17.4
65°	5343.9	2771.4	82.0	57.2	57.2	57.2	49.7	37.3	22.4	9.9	5.0
67.5°	3355.5	1613.1	67.1	44.7	42.3	42.3	34.8	24.9	12.4	2.5	0.0
70°	1262.7	591.6	52.2	34.8	32.3	32.3	24.9	14.9	7.5	0.0	0.0
72°	435.0	226.2	42.3	24.9	24.9	22.4	17.4	12.4	5.0	0.0	0.0
72.5°	357.9	181.4	39.8	24.9	22.4	22.4	17.4	12.4	5.0	0.0	0.0
75°	129.2	74.6	27.3	17.4	14.9	14.9	12.4	7.5	2.5	0.0	0.0
77.5°	64.6	47.2	22.4	14.9	12.4	7.5	7.5	5.0	2.5	0.0	0.0
80°	39.8	29.8	12.4	9.9	7.5	5.0	2.5	2.5	0.0	0.0	0.0
82.5°	27.3	17.4	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.4	7.5	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	5.0	2.5	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)