

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: P483366

Luminaire Tested: **IFLD-M-SA4D-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483366
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

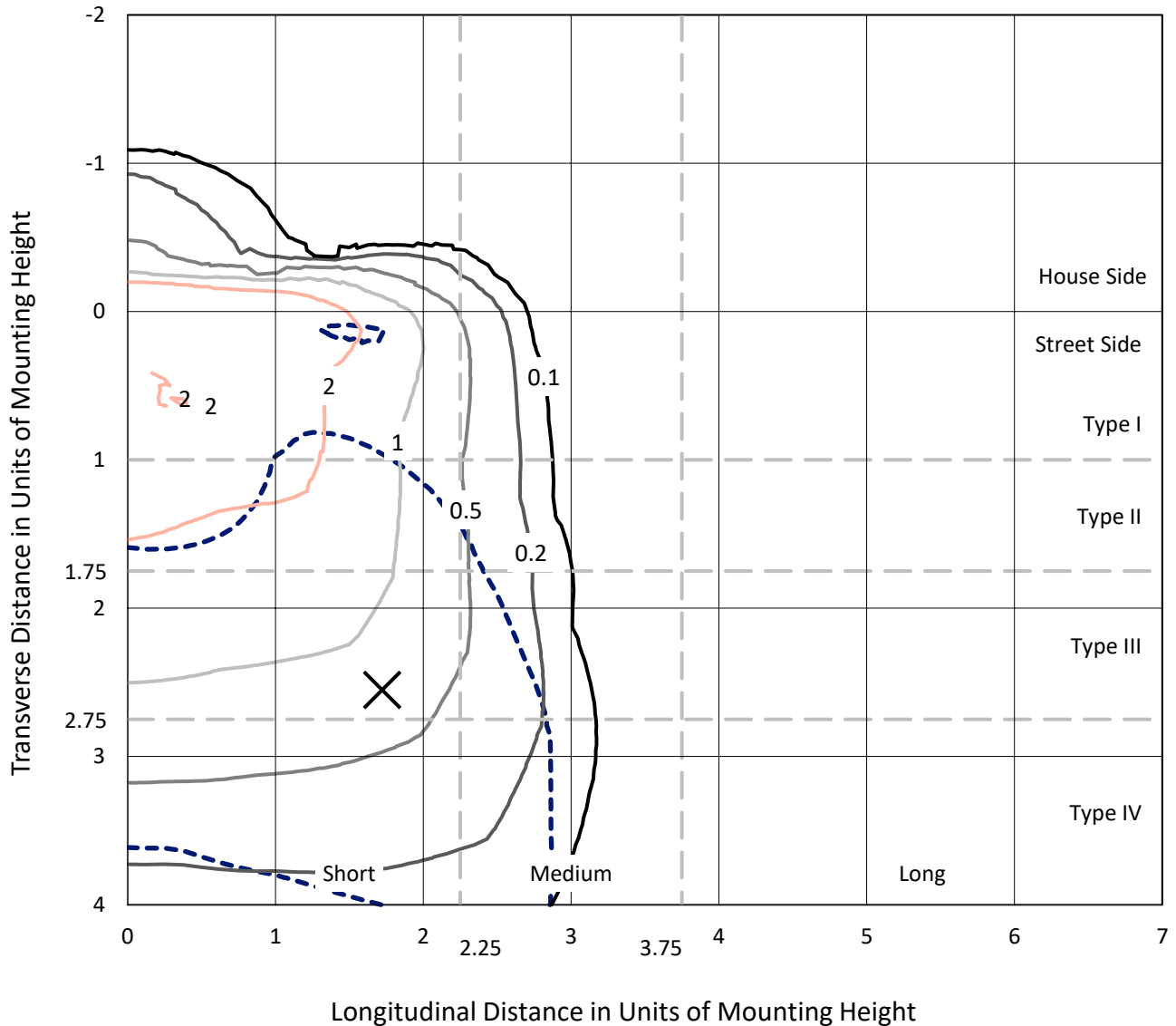
Lumens per Lamp: N/A
Luminaire Lumens: 16628.7 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

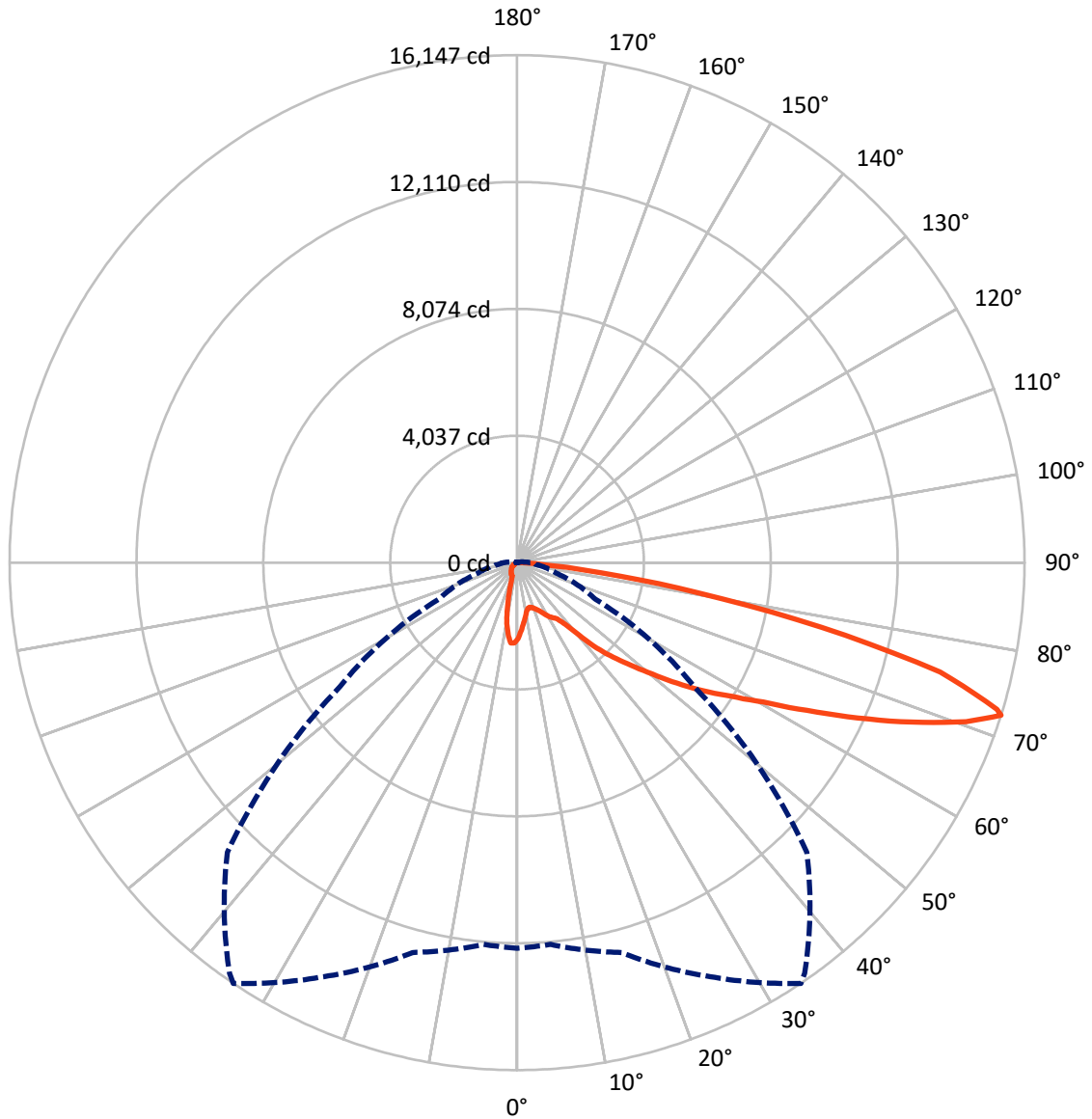
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1702.4	0.0	1702.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14926.3	0.0	14926.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	16628.7	0.0	16628.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.3
10°-20°	478.1	2.9
20°-30°	721.7	4.3
30°-40°	1171.2	7.0
40°-50°	2202.3	13.2
50°-60°	3600.8	21.7
60°-70°	4786.7	28.8
70°-80°	3205.6	19.3
80°-90°	251.2	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°	16628.7	100.0
0°-180°	16628.7	100.0



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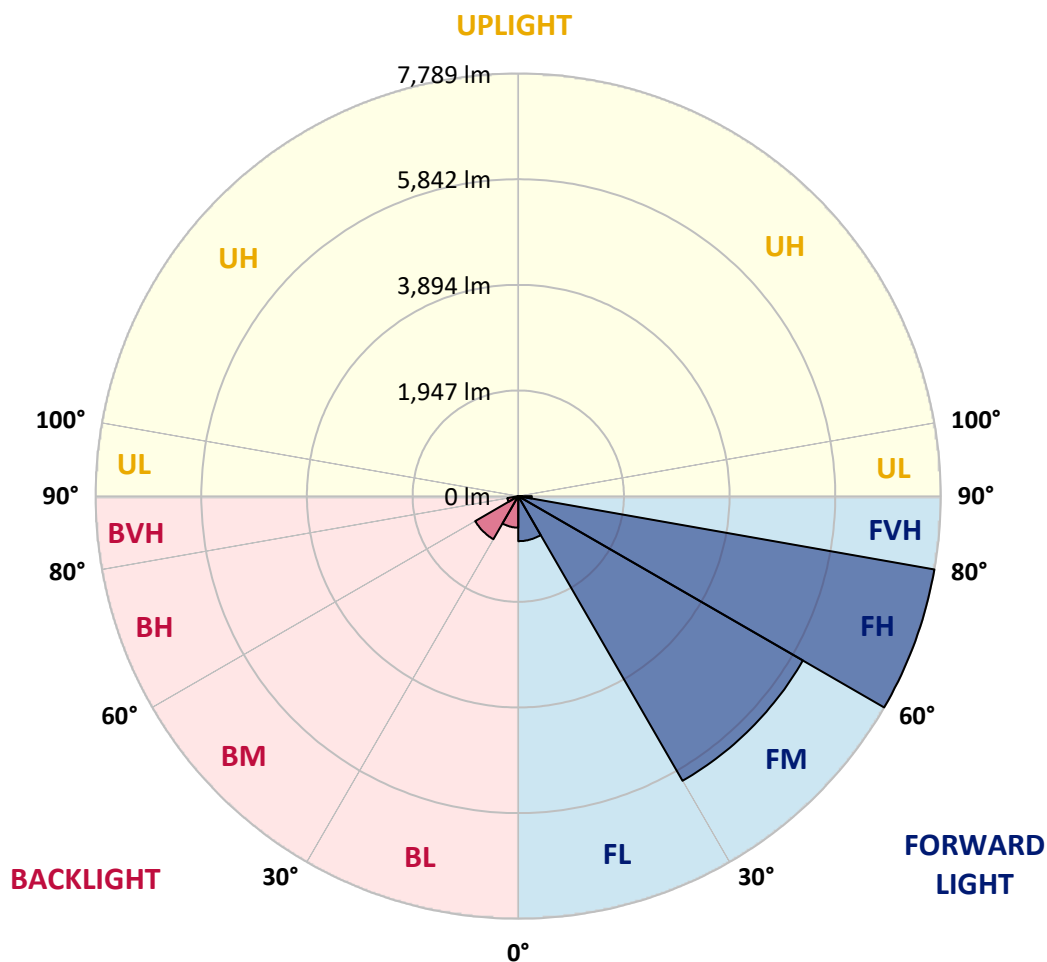
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.1	5.0			
FM (30°-60°)	6057.8	36.4			
FH (60°-80°)	7788.8	46.8			G4/12000
FVH (80°-90°)	249.6	1.5			G3/500
BL (0°-30°)	580.9	3.5	B2/1000		
BM (30°-60°)	916.4	5.5	B1/1000		
BH (60°-80°)	203.6	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°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2151.5	2146.7	2161.1	2185.2	2209.2	2199.6	2245.3	2293.4	2327.0	2372.7	2428.0
5°	1879.9	1891.9	1906.3	1954.4	1985.7	1992.9	2077.0	2139.5	2242.9	2348.7	2447.2
7.5°	1632.3	1646.7	1675.6	1728.4	1793.3	1810.2	1894.3	2019.3	2153.9	2293.4	2454.4
10°	1452.0	1466.4	1497.7	1531.3	1617.9	1617.9	1733.2	1906.3	2081.8	2245.3	2456.8
12.5°	1413.5	1420.7	1418.3	1444.8	1500.1	1512.1	1625.1	1815.0	2019.3	2228.5	2495.3
15°	1459.2	1464.0	1440.0	1425.5	1473.6	1485.6	1591.4	1759.7	1978.4	2238.1	2557.8
17.5°	1550.5	1533.7	1485.6	1464.0	1504.9	1512.1	1610.6	1757.3	1973.6	2264.5	2629.9
20°	1603.4	1622.7	1538.5	1497.7	1555.4	1565.0	1670.7	1795.7	1997.7	2310.2	2730.9
22.5°	1697.2	1706.8	1593.8	1567.4	1622.7	1622.7	1742.9	1872.7	2055.4	2384.7	2851.1
25°	1829.4	1817.4	1685.2	1658.7	1711.6	1733.2	1853.4	1995.3	2144.3	2454.4	2961.7
27.5°	1932.8	1940.0	1831.8	1762.1	1851.0	1865.5	1995.3	2127.5	2211.6	2512.1	3096.3
30°	2086.6	2072.2	1956.8	1877.5	1988.1	1990.5	2115.5	2252.5	2341.4	2615.5	3298.2
32.5°	2269.3	2240.5	2108.3	1995.3	2084.2	2105.9	2233.3	2432.8	2543.4	2810.2	3610.7
35°	2656.4	2586.6	2370.3	2194.8	2202.0	2211.6	2408.8	2694.8	2822.2	3057.8	4029.0
37.5°	3221.3	3192.4	2947.2	2613.1	2485.7	2456.8	2678.0	3041.0	3199.7	3384.8	4572.3
40°	3781.4	3740.5	3512.2	3259.8	3029.0	2971.3	3081.9	3500.1	3644.4	3839.1	5130.0
42.5°	4404.0	4331.9	4062.7	3858.3	3714.1	3651.6	3608.3	4077.1	4240.6	4372.8	5675.7
45°	5033.9	4916.1	4526.6	4370.4	4293.4	4259.8	4255.0	4803.1	4901.6	4928.1	6281.5
47.5°	5586.8	5459.4	5106.0	4930.5	4872.8	4863.2	5132.4	5639.7	5562.7	5493.0	6957.0
50°	6012.3	5930.5	5675.7	5613.2	5569.9	5553.1	6183.0	6500.3	6144.5	6021.9	7550.8
52.5°	6671.0	6488.3	6199.8	6221.4	6372.9	6375.3	7247.9	7317.6	6627.7	6384.9	8110.9
55°	7197.4	7077.2	6841.6	6810.4	7209.4	7252.7	8202.3	7937.8	6896.9	6731.0	8317.7
57.5°	7817.6	7762.3	7591.7	7596.5	8014.8	8106.1	9050.9	8461.9	7120.5	6954.6	8348.9
60°	8714.3	8555.6	8466.7	8507.6	9000.4	9089.3	9873.0	8839.3	7228.7	7101.3	8272.0
62.5°	9704.7	9519.6	9423.5	9632.6	10351.4	10365.8	10498.0	9173.5	7161.4	7139.7	7776.8
65°	10897.1	10714.4	10637.5	11058.2	11911.6	11858.7	11375.5	9315.3	6947.4	6752.7	6476.2
67.5°	12084.6	11974.1	11815.4	12486.1	13548.6	13548.6	12286.6	9262.4	6387.3	5420.9	4235.8
70°	12647.2	12724.1	12976.5	14029.4	15156.9	15041.5	13185.6	8654.2	4755.0	2911.2	1665.9
72°	12272.1	12192.8	12844.3	14534.3	16147.3	15957.4	13034.2	6880.1	2747.7	1276.5	579.4
72.5°	11627.9	11702.4	12599.1	14464.5	15962.2	16118.5	12664.0	6346.4	2259.7	1016.9	437.5
75°	7130.1	7257.5	9404.2	12281.8	13909.2	13733.7	9796.1	3024.2	867.8	432.7	156.3
77.5°	2603.5	2709.2	4562.7	7728.7	9892.2	9781.7	5668.5	1074.6	471.2	322.1	79.3
80°	677.9	733.2	1550.5	3565.1	5817.6	5824.8	2372.7	430.3	319.7	264.4	48.1
82.5°	134.6	149.0	476.0	1387.1	2718.9	2682.8	750.0	230.8	240.4	216.4	33.7
85°	16.8	21.6	101.0	471.2	879.8	788.5	185.1	115.4	177.9	168.3	21.6
87.5°	2.4	2.4	24.0	108.2	185.1	180.3	38.5	36.1	79.3	103.4	12.0
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°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2459.2	2468.9	2502.5	2531.4	2565.0	2574.6	2560.2	2584.2	2550.6	2569.8	2574.6
5°	2464.0	2519.3	2581.8	2622.7	2613.1	2589.1	2569.8	2504.9	2459.2	2442.4	2478.5
7.5°	2497.7	2560.2	2627.5	2627.5	2574.6	2449.6	2329.4	2214.0	2117.9	2069.8	2110.7
10°	2541.0	2605.9	2675.6	2584.2	2387.1	2158.7	1988.1	1771.7	1625.1	1548.1	1555.4
12.5°	2598.7	2690.0	2714.1	2502.5	2175.6	1836.6	1526.5	1226.0	1086.6	976.0	978.4
15°	2673.2	2762.1	2690.0	2324.6	1906.3	1406.3	1033.7	747.6	637.0	579.4	579.4
17.5°	2771.8	2839.1	2682.8	2161.1	1543.3	961.6	634.6	504.8	480.8	471.2	471.2
20°	2887.1	2937.6	2613.1	1906.3	1146.7	617.8	466.4	451.9	454.3	449.5	449.5
22.5°	3017.0	3033.8	2533.8	1610.6	776.5	456.7	435.1	437.5	439.9	435.1	437.5
25°	3154.0	3108.3	2418.4	1264.5	516.8	415.9	420.7	425.5	427.9	430.3	430.3
27.5°	3307.8	3216.5	2257.3	925.5	403.9	391.8	406.3	420.7	423.1	423.1	420.7
30°	3533.8	3382.4	2101.0	627.4	355.8	365.4	389.4	406.3	418.3	418.3	415.9
32.5°	3819.9	3555.4	1882.3	427.9	329.3	334.1	353.4	387.0	413.5	415.9	408.7
35°	4216.5	3764.6	1653.9	341.4	310.1	312.5	324.5	351.0	396.7	411.1	408.7
37.5°	4634.8	4002.6	1370.2	307.7	295.7	293.3	300.5	322.1	363.0	399.1	401.5
40°	5079.5	4252.6	1072.2	290.9	283.7	278.9	281.3	290.9	322.1	367.8	377.4
42.5°	5497.8	4478.6	805.3	274.0	271.6	266.8	266.8	269.2	286.1	317.3	322.1
45°	5949.8	4663.7	613.0	262.0	254.8	257.2	247.6	242.8	254.8	257.2	254.8
47.5°	6372.9	4848.8	490.4	247.6	240.4	240.4	228.4	218.8	218.8	197.1	194.7
50°	6769.5	4949.7	391.8	228.4	226.0	223.6	206.7	189.9	175.5	149.0	144.2
52.5°	7098.9	4944.9	302.9	204.3	211.5	204.3	177.9	153.9	132.2	108.2	103.4
55°	7197.4	4714.1	228.4	168.3	180.3	170.7	141.8	120.2	96.2	76.9	74.5
57.5°	7113.3	4363.2	173.1	129.8	139.4	129.8	108.2	88.9	67.3	52.9	48.1
60°	6832.0	3952.1	134.6	101.0	105.8	98.6	81.7	67.3	48.1	33.7	28.8
62.5°	6298.3	3437.6	103.4	79.3	76.9	76.9	62.5	50.5	33.7	19.2	16.8
65°	5168.5	2680.4	79.3	55.3	55.3	55.3	48.1	36.1	21.6	9.6	4.8
67.5°	3245.3	1560.2	64.9	43.3	40.9	40.9	33.7	24.0	12.0	2.4	0.0
70°	1221.2	572.1	50.5	33.7	31.3	31.3	24.0	14.4	7.2	0.0	0.0
72°	420.7	218.8	40.9	24.0	24.0	21.6	16.8	12.0	4.8	0.0	0.0
72.5°	346.2	175.5	38.5	24.0	21.6	21.6	16.8	12.0	4.8	0.0	0.0
75°	125.0	72.1	26.4	16.8	14.4	14.4	12.0	7.2	2.4	0.0	0.0
77.5°	62.5	45.7	21.6	14.4	12.0	7.2	7.2	4.8	2.4	0.0	0.0
80°	38.5	28.8	12.0	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	26.4	16.8	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.8	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	4.8	2.4	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)