

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: P483169

Luminaire Tested: **IFLD-M-SA4B-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483169
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

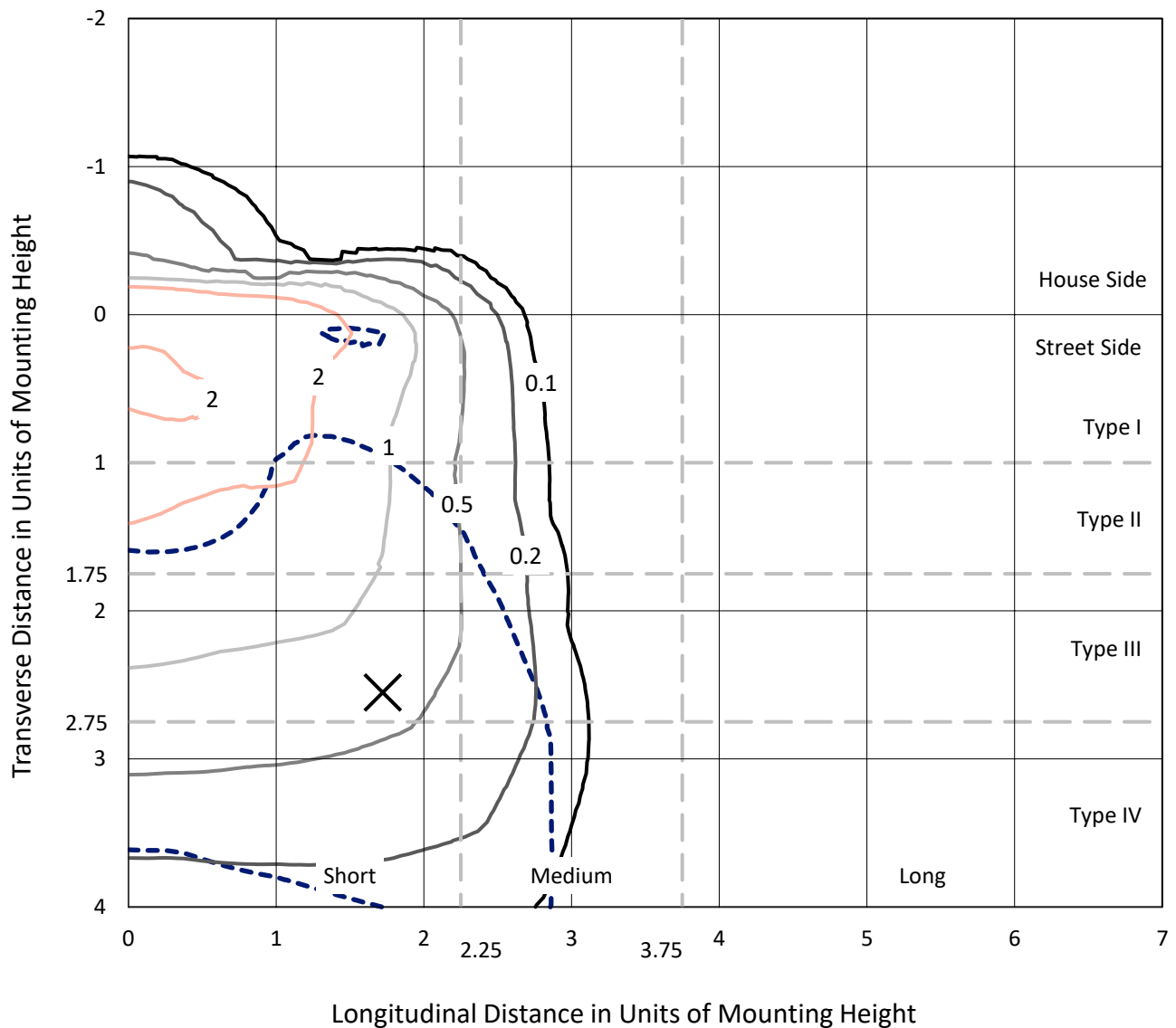
Lumens per Lamp: N/A
Luminaire Lumens: 15038.5 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

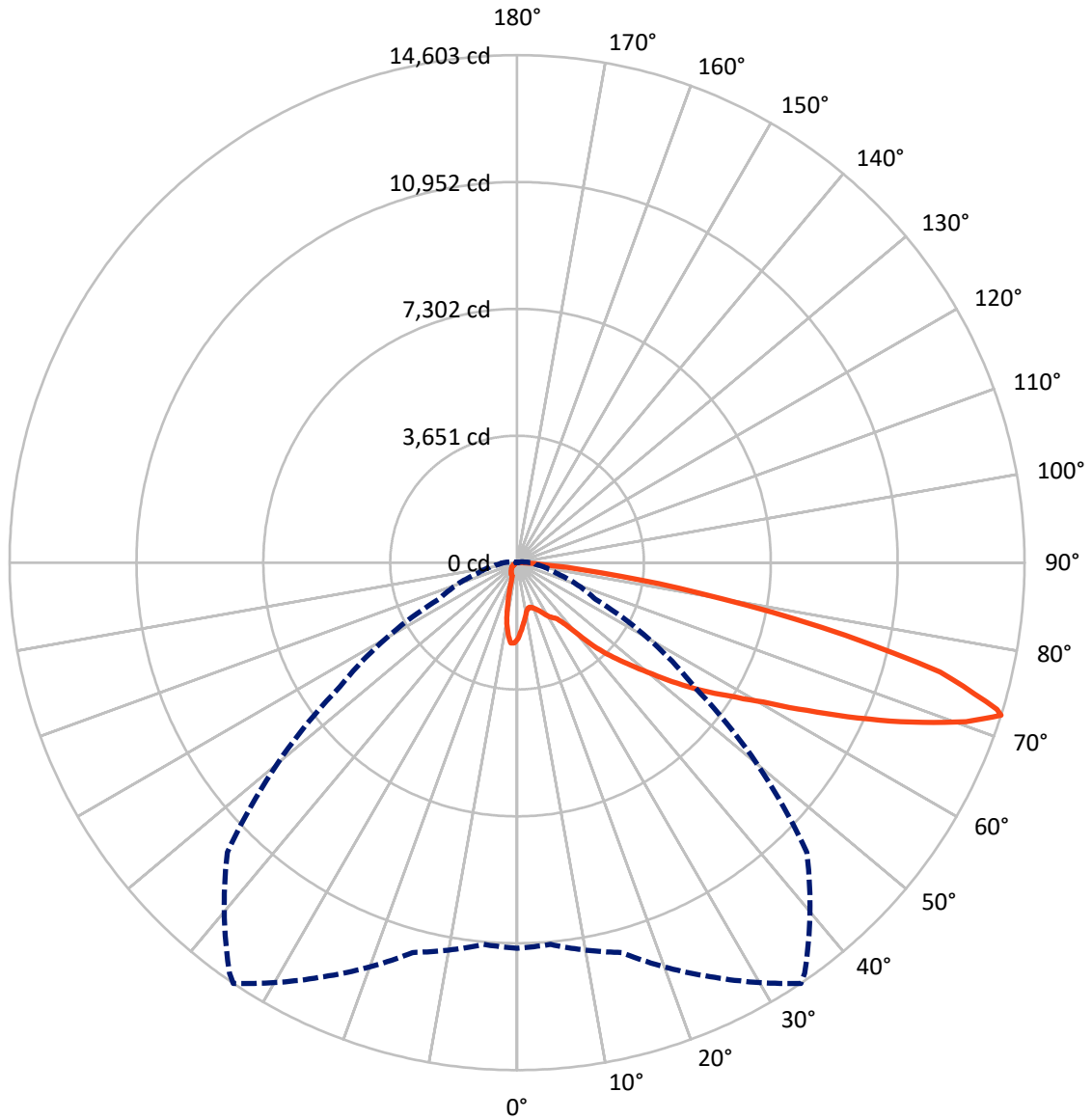
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1539.6	0.0	1539.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	13498.9	0.0	13498.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	15038.5	0.0	15038.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.3
10°-20°	432.4	2.9
20°-30°	652.7	4.3
30°-40°	1059.1	7.0
40°-50°	1991.7	13.2
50°-60°	3256.4	21.7
60°-70°	4328.9	28.8
70°-80°	2899.1	19.3
80°-90°	227.2	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°	15038.5	100.0
0°-180°	15038.5	100.0

Coefficient of Utilization

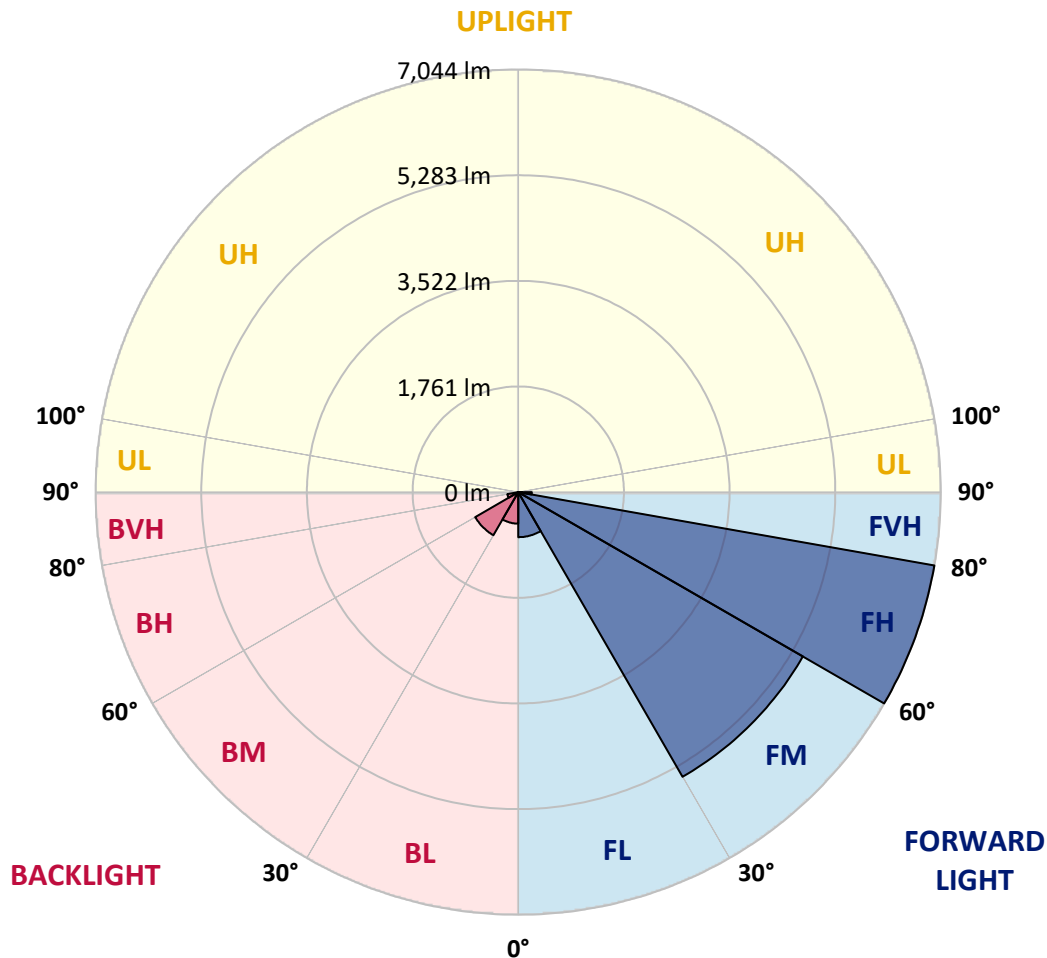


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.8	5.0			
FM (30°-60°)	5478.5	36.4			
FH (60°-80°)	7043.9	46.8			G3/7500
FVH (80°-90°)	225.8	1.5			G3/500
BL (0°-30°)	525.3	3.5	B2/1000		
BM (30°-60°)	828.7	5.5	B1/1000		
BH (60°-80°)	184.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1
2.5°	1945.8	1941.4	1954.5	1976.2	1998.0	1989.3	2030.6	2074.0	2104.5	2145.8	2195.8
5°	1700.1	1711.0	1724.0	1767.5	1795.8	1802.3	1878.4	1934.9	2028.4	2124.1	2213.2
7.5°	1476.2	1489.2	1515.3	1563.1	1621.8	1637.1	1713.2	1826.2	1948.0	2074.0	2219.7
10°	1313.1	1326.2	1354.4	1384.9	1463.1	1463.1	1567.5	1724.0	1882.7	2030.6	2221.9
12.5°	1278.3	1284.9	1282.7	1306.6	1356.6	1367.5	1469.7	1641.4	1826.2	2015.3	2256.7
15°	1319.7	1324.0	1302.3	1289.2	1332.7	1343.6	1439.2	1591.4	1789.2	2024.0	2313.2
17.5°	1402.3	1387.0	1343.6	1324.0	1361.0	1367.5	1456.6	1589.2	1784.9	2048.0	2378.4
20°	1450.1	1467.5	1391.4	1354.4	1406.6	1415.3	1511.0	1624.0	1806.6	2089.3	2469.7
22.5°	1534.9	1543.6	1441.4	1417.5	1467.5	1467.5	1576.2	1693.6	1858.8	2156.7	2578.4
25°	1654.5	1643.6	1524.0	1500.1	1547.9	1567.5	1676.2	1804.5	1939.3	2219.7	2678.4
27.5°	1747.9	1754.5	1656.6	1593.6	1674.0	1687.1	1804.5	1924.0	2000.1	2271.9	2800.2
30°	1887.1	1874.0	1769.7	1697.9	1797.9	1800.1	1913.2	2037.1	2117.5	2365.4	2982.8
32.5°	2052.3	2026.2	1906.6	1804.5	1884.9	1904.5	2019.7	2200.1	2300.1	2541.5	3265.4
35°	2402.3	2339.3	2143.6	1984.9	1991.4	2000.1	2178.4	2437.1	2552.3	2765.4	3643.7
37.5°	2913.2	2887.1	2665.4	2363.2	2248.0	2221.9	2421.9	2750.2	2893.7	3061.1	4135.1
40°	3419.8	3382.8	3176.3	2948.0	2739.3	2687.1	2787.1	3165.4	3295.9	3472.0	4639.4
42.5°	3982.9	3917.6	3674.2	3489.4	3358.9	3302.4	3263.3	3687.2	3835.0	3954.6	5132.9
45°	4552.5	4445.9	4093.7	3952.4	3882.9	3852.4	3848.1	4343.8	4432.9	4456.8	5680.8
47.5°	5052.5	4937.3	4617.7	4459.0	4406.8	4398.1	4641.6	5100.3	5030.8	4967.7	6291.7
50°	5437.3	5363.4	5132.9	5076.4	5037.3	5022.1	5591.7	5878.6	5556.9	5446.0	6828.7
52.5°	6033.0	5867.8	5606.9	5626.5	5763.4	5765.6	6554.8	6617.8	5993.9	5774.3	7335.3
55°	6509.1	6400.4	6187.4	6159.1	6520.0	6559.1	7417.9	7178.7	6237.4	6087.4	7522.2
57.5°	7070.0	7020.0	6865.7	6870.0	7248.3	7330.9	8185.3	7652.7	6439.5	6289.5	7550.5
60°	7880.9	7737.5	7657.0	7694.0	8139.7	8220.1	8928.8	7994.0	6537.4	6422.2	7480.9
62.5°	8776.7	8609.3	8522.3	8711.4	9361.5	9374.5	9494.1	8296.2	6476.5	6456.9	7033.1
65°	9855.0	9689.8	9620.2	10000.6	10772.4	10724.6	10287.6	8424.5	6283.0	6106.9	5856.9
67.5°	10929.0	10829.0	10685.5	11292.0	12253.0	12253.0	11111.6	8376.6	5776.5	4902.5	3830.7
70°	11437.7	11507.3	11735.5	12687.8	13707.4	13603.1	11924.7	7826.6	4300.3	2632.8	1506.6
72°	11098.5	11026.8	11616.0	13144.3	14603.1	14431.4	11787.7	6222.1	2484.9	1154.4	523.9
72.5°	10515.9	10583.3	11394.2	13081.3	14435.7	14577.0	11452.9	5739.5	2043.6	919.6	395.7
75°	6448.2	6563.5	8504.9	11107.2	12579.1	12420.4	8859.3	2735.0	784.8	391.3	141.3
77.5°	2354.5	2450.2	4126.4	6989.6	8946.2	8846.2	5126.4	971.8	426.1	291.3	71.7
80°	613.1	663.1	1402.3	3224.1	5261.2	5267.7	2145.8	389.2	289.1	239.1	43.5
82.5°	121.7	134.8	430.5	1254.4	2458.9	2426.2	678.3	208.7	217.4	195.7	30.4
85°	15.2	19.6	91.3	426.1	795.7	713.1	167.4	104.4	160.9	152.2	19.6
87.5°	2.2	2.2	21.7	97.8	167.4	163.1	34.8	32.6	71.7	93.5	10.9
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°	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1	2200.1
2.5°	2224.1	2232.8	2263.2	2289.3	2319.7	2328.4	2315.4	2337.1	2306.7	2324.1	2328.4
5°	2228.4	2278.4	2334.9	2371.9	2363.2	2341.5	2324.1	2265.4	2224.1	2208.8	2241.4
7.5°	2258.8	2315.4	2376.2	2376.2	2328.4	2215.4	2106.7	2002.3	1915.3	1871.9	1908.8
10°	2298.0	2356.7	2419.7	2337.1	2158.8	1952.3	1797.9	1602.3	1469.7	1400.1	1406.6
12.5°	2350.2	2432.8	2454.5	2263.2	1967.5	1661.0	1380.5	1108.8	982.7	882.7	884.8
15°	2417.5	2498.0	2432.8	2102.3	1724.0	1271.8	934.8	676.1	576.1	523.9	523.9
17.5°	2506.7	2567.6	2426.2	1954.5	1395.7	869.6	574.0	456.6	434.8	426.1	426.1
20°	2611.0	2656.7	2363.2	1724.0	1037.0	558.7	421.8	408.7	410.9	406.5	406.5
22.5°	2728.4	2743.7	2291.5	1456.6	702.2	413.1	393.5	395.7	397.9	393.5	395.7
25°	2852.4	2811.1	2187.1	1143.6	467.4	376.1	380.5	384.8	387.0	389.2	389.2
27.5°	2991.5	2908.9	2041.4	837.0	365.2	354.4	367.4	380.5	382.6	382.6	380.5
30°	3195.9	3058.9	1900.1	567.4	321.8	330.5	352.2	367.4	378.3	378.3	376.1
32.5°	3454.6	3215.4	1702.3	387.0	297.8	302.2	319.6	350.0	373.9	376.1	369.6
35°	3813.3	3404.6	1495.7	308.7	280.5	282.6	293.5	317.4	358.7	371.8	369.6
37.5°	4191.6	3619.8	1239.2	278.3	267.4	265.2	271.8	291.3	328.3	360.9	363.1
40°	4593.8	3845.9	969.6	263.1	256.5	252.2	254.4	263.1	291.3	332.6	341.3
42.5°	4972.1	4050.3	728.3	247.8	245.7	241.3	241.3	243.5	258.7	287.0	291.3
45°	5380.8	4217.7	554.4	237.0	230.4	232.6	223.9	219.6	230.4	232.6	230.4
47.5°	5763.4	4385.1	443.5	223.9	217.4	217.4	206.5	197.8	197.8	178.3	176.1
50°	6122.1	4476.4	354.4	206.5	204.4	202.2	187.0	171.8	158.7	134.8	130.4
52.5°	6420.0	4472.0	273.9	184.8	191.3	184.8	160.9	139.1	119.6	97.8	93.5
55°	6509.1	4263.3	206.5	152.2	163.1	154.4	128.3	108.7	87.0	69.6	67.4
57.5°	6433.0	3945.9	156.5	117.4	126.1	117.4	97.8	80.4	60.9	47.8	43.5
60°	6178.7	3574.1	121.7	91.3	95.7	89.1	73.9	60.9	43.5	30.4	26.1
62.5°	5696.0	3108.9	93.5	71.7	69.6	69.6	56.5	45.7	30.4	17.4	15.2
65°	4674.2	2424.1	71.7	50.0	50.0	50.0	43.5	32.6	19.6	8.7	4.3
67.5°	2935.0	1411.0	58.7	39.1	37.0	37.0	30.4	21.7	10.9	2.2	0.0
70°	1104.4	517.4	45.7	30.4	28.3	28.3	21.7	13.0	6.5	0.0	0.0
72°	380.5	197.8	37.0	21.7	21.7	19.6	15.2	10.9	4.3	0.0	0.0
72.5°	313.1	158.7	34.8	21.7	19.6	19.6	15.2	10.9	4.3	0.0	0.0
75°	113.1	65.2	23.9	15.2	13.0	13.0	10.9	6.5	2.2	0.0	0.0
77.5°	56.5	41.3	19.6	13.0	10.9	6.5	6.5	4.3	2.2	0.0	0.0
80°	34.8	26.1	10.9	8.7	6.5	4.3	2.2	2.2	0.0	0.0	0.0
82.5°	23.9	15.2	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.2	6.5	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	4.3	2.2	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)