

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: P483559

Luminaire Tested: **IFLD-M-SA4B-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483559  
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-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

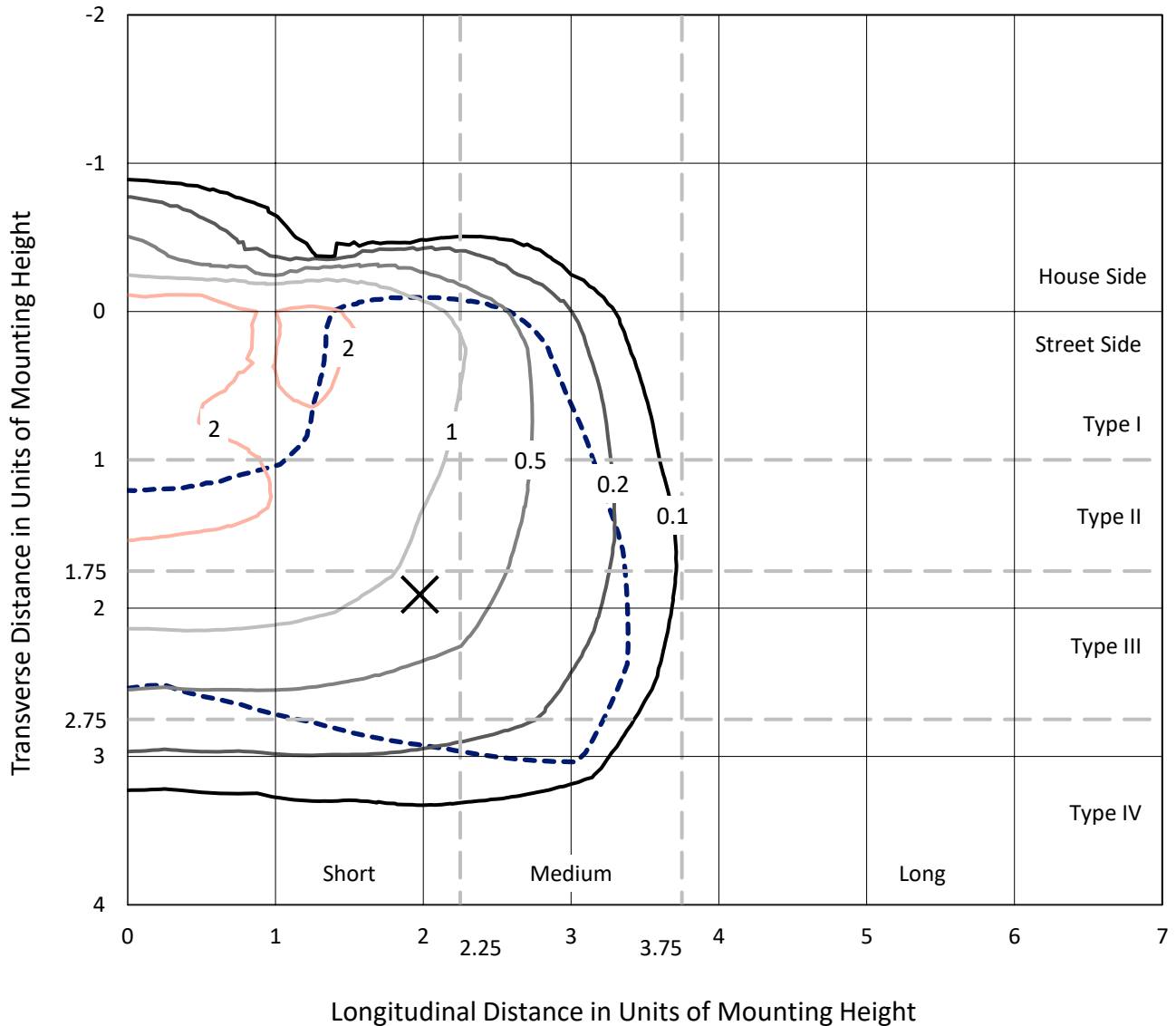
Lumens per Lamp: N/A  
Luminaire Lumens: 15345.2 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

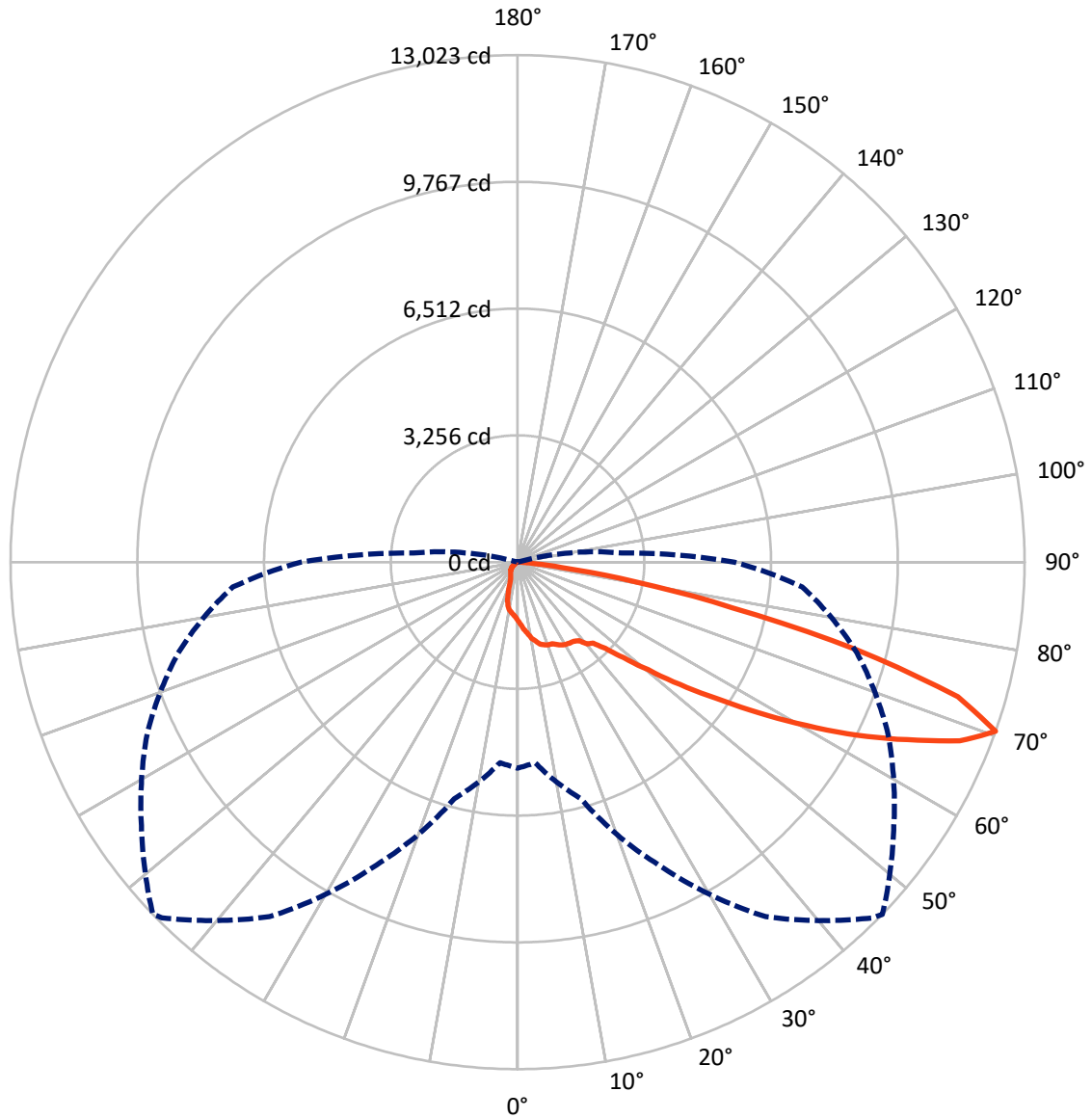
× Max cd  
 - - - 1/2 Max cd



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 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1526.9	0.0	1526.9
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	13818.3	0.0	13818.3
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	15345.2	0.0	15345.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	1.0
10°-20°	453.6	3.0
20°-30°	726.6	4.7
30°-40°	1037.1	6.8
40°-50°	1790.8	11.7
50°-60°	3428.7	22.3
60°-70°	5077.3	33.1
70°-80°	2514.7	16.4
80°-90°	166.2	1.1
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°	15345.2	100.0
0°-180°	15345.2	100.0



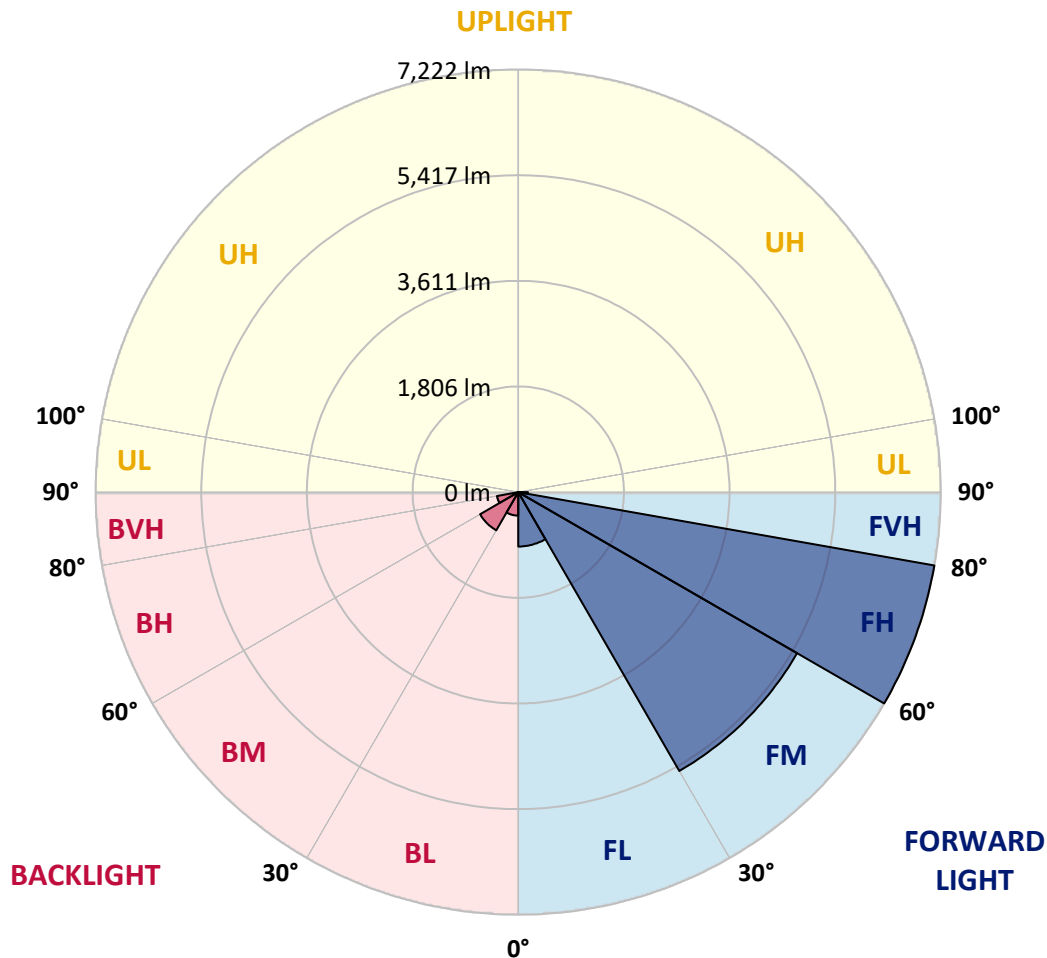
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.3	6.1			
FM (30°-60°)	5502.8	35.9			
FH (60°-80°)	7222.2	47.1			G3/7500
FVH (80°-90°)	164.1	1.1			G2/225
BL (0°-30°)	401.1	2.6	B1/500		
BM (30°-60°)	753.8	4.9	B1/1000		
BH (60°-80°)	369.8	2.4	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1680.9	1669.9	1652.2	1645.6	1627.9	1619.1	1605.8	1599.2	1574.9	1550.6	1535.1
5°	1886.3	1859.8	1868.7	1842.2	1784.7	1738.3	1736.1	1685.3	1630.1	1585.9	1526.3
7.5°	2094.0	2071.9	2038.7	2001.2	1937.1	1868.7	1848.8	1800.2	1722.9	1645.6	1566.1
10°	2250.8	2235.3	2206.6	2153.6	2065.3	1987.9	1990.2	1908.4	1826.7	1738.3	1630.1
12.5°	2348.0	2354.6	2312.6	2259.6	2182.3	2085.1	2082.9	2027.7	1934.9	1842.2	1714.1
15°	2445.2	2469.5	2405.4	2343.6	2244.2	2173.5	2186.7	2120.5	2029.9	1923.9	1782.5
17.5°	2460.6	2467.3	2454.0	2363.4	2290.6	2230.9	2233.1	2189.0	2120.5	2005.6	1884.1
20°	2434.1	2429.7	2414.3	2348.0	2299.4	2264.1	2266.3	2255.2	2217.7	2124.9	1959.2
22.5°	2356.8	2356.8	2336.9	2292.8	2270.7	2303.8	2277.3	2319.3	2279.5	2224.3	2087.3
25°	2295.0	2319.3	2308.2	2279.5	2288.3	2332.5	2345.8	2385.5	2378.9	2310.4	2175.7
27.5°	2361.2	2332.5	2339.2	2306.0	2339.2	2405.4	2412.0	2440.8	2438.5	2383.3	2255.2
30°	2405.4	2431.9	2381.1	2308.2	2343.6	2456.2	2451.8	2489.4	2507.0	2440.8	2330.3
32.5°	2546.8	2524.7	2482.7	2385.5	2390.0	2454.0	2473.9	2522.5	2533.5	2493.8	2403.2
35°	2836.1	2803.0	2619.7	2473.9	2451.8	2482.7	2496.0	2591.0	2610.8	2566.7	2480.5
37.5°	3282.3	3207.2	2986.3	2663.8	2564.5	2557.8	2557.8	2683.7	2758.8	2657.2	2595.4
40°	3920.7	3814.6	3576.1	3015.1	2712.4	2738.9	2765.5	2833.9	2825.1	2758.8	2745.6
42.5°	4733.5	4651.8	4393.4	3604.8	2995.2	2862.6	2840.6	2933.3	3072.5	3046.0	3037.1
45°	5411.6	5416.1	5250.4	4413.2	3483.3	3147.6	3163.0	3233.7	3467.9	3448.0	3445.8
47.5°	5906.4	5844.6	5820.3	5193.0	4194.6	3688.7	3666.7	3715.3	4020.1	4146.0	4203.4
50°	6357.0	6315.0	6257.6	5950.6	5049.4	4366.9	4344.8	4349.2	4815.2	4992.0	5133.3
52.5°	6915.8	6968.9	6778.9	6591.1	6156.0	5248.2	5223.9	5137.7	5716.5	5959.4	6127.3
55°	7605.0	7505.6	7291.3	7388.5	7214.0	6200.2	6156.0	6054.4	6743.6	6845.2	7021.9
57.5°	7757.4	7682.3	7903.2	8247.8	8415.6	7317.9	7300.2	7116.8	7607.2	7514.4	8013.6
60°	8137.3	8157.2	8464.2	9149.0	9440.5	8607.8	8521.7	8199.2	8444.4	8462.0	8994.4
62.5°	8528.3	8481.9	9168.9	9827.1	10275.5	9829.3	9800.6	9160.0	9438.3	9213.0	9917.6
65°	8241.1	8311.8	9294.8	10397.0	11357.8	11024.3	11000.0	10085.5	10237.9	9957.4	10293.1
67.5°	7220.7	7077.1	8453.2	10136.3	11914.4	12276.7	12250.2	11095.0	10688.5	9953.0	9513.4
70°	5292.4	5168.7	6290.7	8583.5	11117.0	12917.2	13023.3	11797.4	10505.2	9025.3	7339.9
72.5°	2593.2	2595.4	3525.3	5820.3	8795.6	11773.1	11826.1	10816.6	9025.3	6653.0	4157.0
75°	766.5	775.3	1305.4	2853.8	5685.5	8941.3	9001.0	8210.2	6255.4	3436.9	1418.1
77.5°	280.5	280.5	432.9	1071.3	2836.1	5643.6	5639.1	5040.5	3167.5	1164.1	331.3
80°	145.8	152.4	225.3	437.3	1228.1	2940.0	3050.4	2467.3	1203.8	490.4	97.2
82.5°	59.6	66.3	123.7	225.3	589.8	1031.5	1128.7	967.5	523.5	342.4	44.2
85°	17.7	19.9	59.6	125.9	231.9	258.4	287.1	324.7	329.1	265.1	19.9
87.5°	2.2	2.2	24.3	42.0	50.8	55.2	64.1	64.1	167.9	185.5	11.0
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°	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1517.5	1506.4	1488.8	1449.0	1440.2	1411.4	1409.2	1382.7	1391.6	1373.9	1367.3
5°	1506.4	1482.1	1433.5	1402.6	1371.7	1351.8	1338.6	1327.5	1325.3	1316.5	1312.0
7.5°	1526.3	1493.2	1418.1	1369.5	1316.5	1298.8	1270.1	1267.9	1252.4	1236.9	1236.9
10°	1592.6	1532.9	1451.2	1369.5	1301.0	1243.6	1177.3	1128.7	1111.0	1071.3	1075.7
12.5°	1645.6	1592.6	1473.3	1389.4	1285.5	1155.2	1009.4	896.8	843.8	793.0	812.8
15°	1720.7	1643.4	1515.3	1393.8	1225.9	1000.6	762.0	636.1	587.5	576.5	574.3
17.5°	1802.4	1720.7	1568.3	1382.7	1104.4	773.1	561.0	488.2	497.0	510.2	508.0
20°	1893.0	1793.6	1608.0	1345.2	912.2	561.0	459.4	457.2	470.5	490.4	494.8
22.5°	1987.9	1901.8	1656.6	1232.5	680.3	450.6	441.8	441.8	450.6	474.9	470.5
25°	2094.0	1979.1	1680.9	1058.0	488.2	415.3	419.7	428.5	432.9	452.8	455.0
27.5°	2175.7	2065.3	1687.5	848.2	397.6	384.3	395.4	406.4	413.1	428.5	435.1
30°	2250.8	2173.5	1652.2	631.7	364.5	357.8	362.2	377.7	391.0	404.2	404.2
32.5°	2345.8	2235.3	1570.5	448.4	344.6	333.5	331.3	338.0	353.4	368.9	368.9
35°	2443.0	2339.2	1440.2	360.0	326.9	311.4	302.6	296.0	302.6	313.7	322.5
37.5°	2584.3	2496.0	1276.7	331.3	313.7	291.6	273.9	258.4	247.4	245.2	251.8
40°	2785.3	2672.7	1066.9	311.4	298.2	271.7	245.2	218.7	194.4	178.9	181.1
42.5°	3090.2	2933.3	839.4	300.4	287.1	249.6	212.0	174.5	143.6	128.1	128.1
45°	3525.3	3277.9	616.3	289.4	273.9	223.1	174.5	130.3	99.4	90.6	92.8
47.5°	4181.3	3693.2	441.8	271.7	256.2	194.4	136.9	92.8	72.9	68.5	70.7
50°	5038.3	4185.7	344.6	251.8	234.1	163.5	101.6	68.5	57.4	55.2	57.4
52.5°	5937.3	4682.7	302.6	234.1	201.0	130.3	75.1	55.2	48.6	46.4	48.6
55°	6706.0	5003.0	262.9	207.6	161.2	97.2	59.6	48.6	42.0	35.3	35.3
57.5°	7483.5	5164.2	207.6	172.3	119.3	72.9	50.8	42.0	35.3	28.7	26.5
60°	8115.2	5279.1	148.0	128.1	83.9	57.4	44.2	37.6	28.7	22.1	19.9
62.5°	8530.5	4950.0	108.2	97.2	61.8	48.6	37.6	30.9	22.1	15.5	15.5
65°	8325.1	4495.0	83.9	68.5	46.4	37.6	30.9	22.1	15.5	8.8	6.6
67.5°	7470.3	3662.2	68.5	50.8	35.3	28.7	24.3	17.7	8.8	2.2	2.2
70°	5572.9	2683.7	55.2	37.6	28.7	22.1	17.7	11.0	4.4	2.2	0.0
72.5°	3048.2	1468.9	44.2	30.9	22.1	17.7	13.3	8.8	4.4	0.0	0.0
75°	1007.2	391.0	33.1	22.1	13.3	11.0	8.8	6.6	2.2	0.0	0.0
77.5°	243.0	101.6	26.5	19.9	11.0	6.6	4.4	2.2	2.2	0.0	0.0
80°	75.1	42.0	19.9	13.3	8.8	6.6	2.2	0.0	0.0	0.0	0.0
82.5°	30.9	19.9	8.8	8.8	6.6	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.5	11.0	6.6	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.4	2.2	2.2	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)