

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: P483563

Luminaire Tested: **IFLD-L-SA7A-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

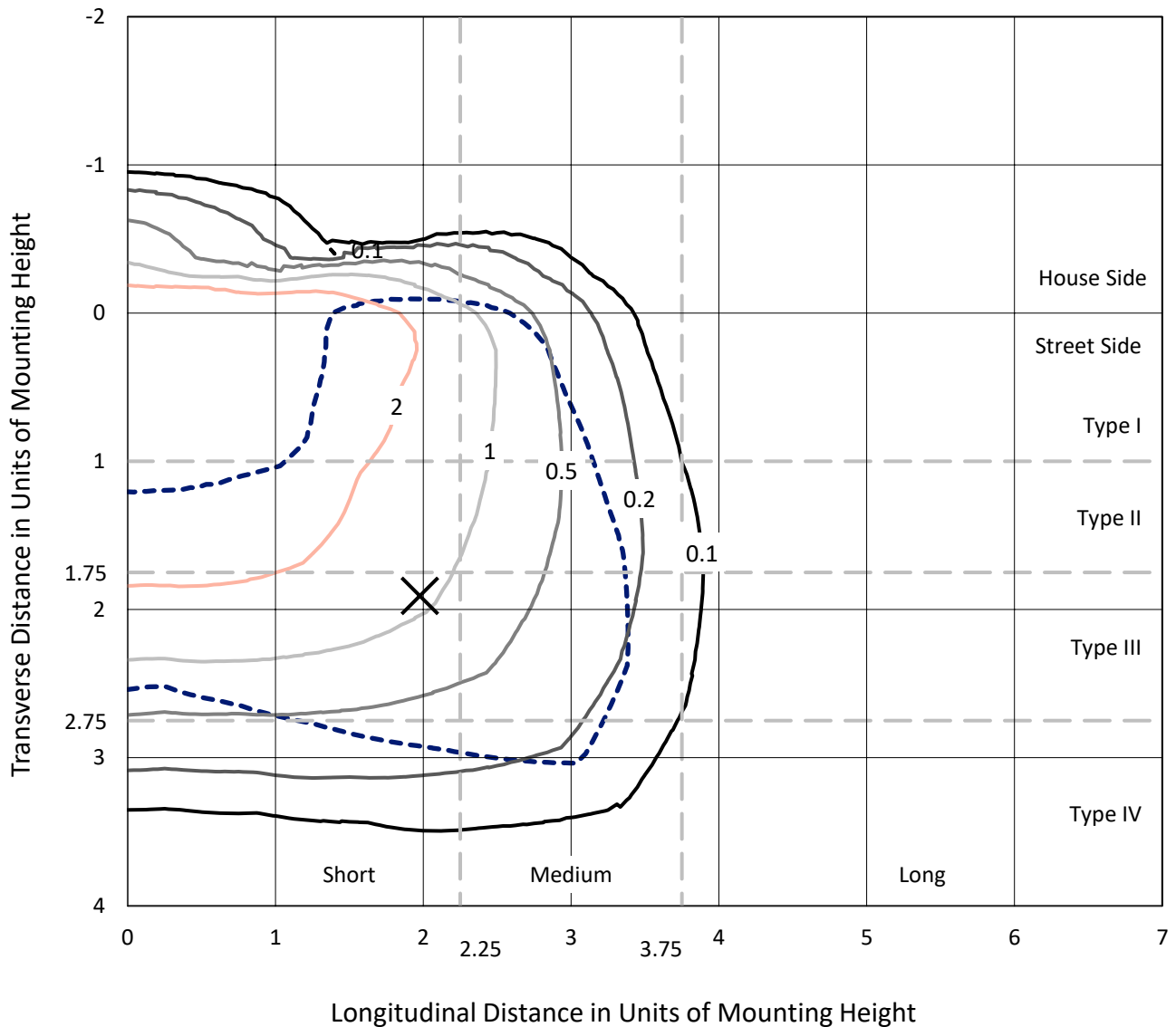
Lumens per Lamp: N/A
Luminaire Lumens: 21030 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

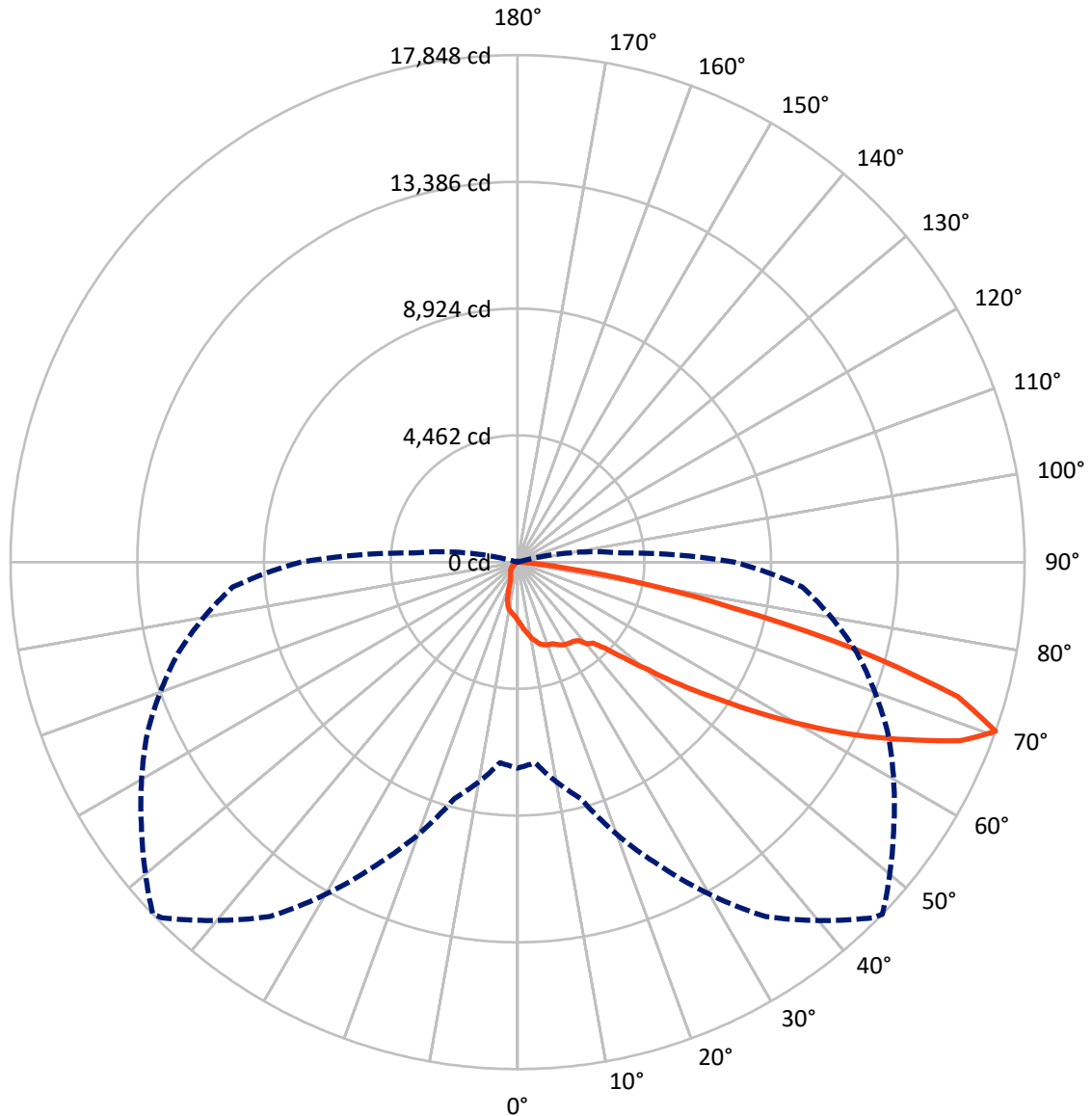
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2092.5	0.0	2092.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18937.4	0.0	18937.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	21030.0	0.0	21030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	1.0
10°-20°	621.7	3.0
20°-30°	995.8	4.7
30°-40°	1421.3	6.8
40°-50°	2454.2	11.7
50°-60°	4698.8	22.3
60°-70°	6958.2	33.1
70°-80°	3446.3	16.4
80°-90°	227.7	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°	21030.0	100.0
0°-180°	21030.0	100.0

Coefficient of Utilization

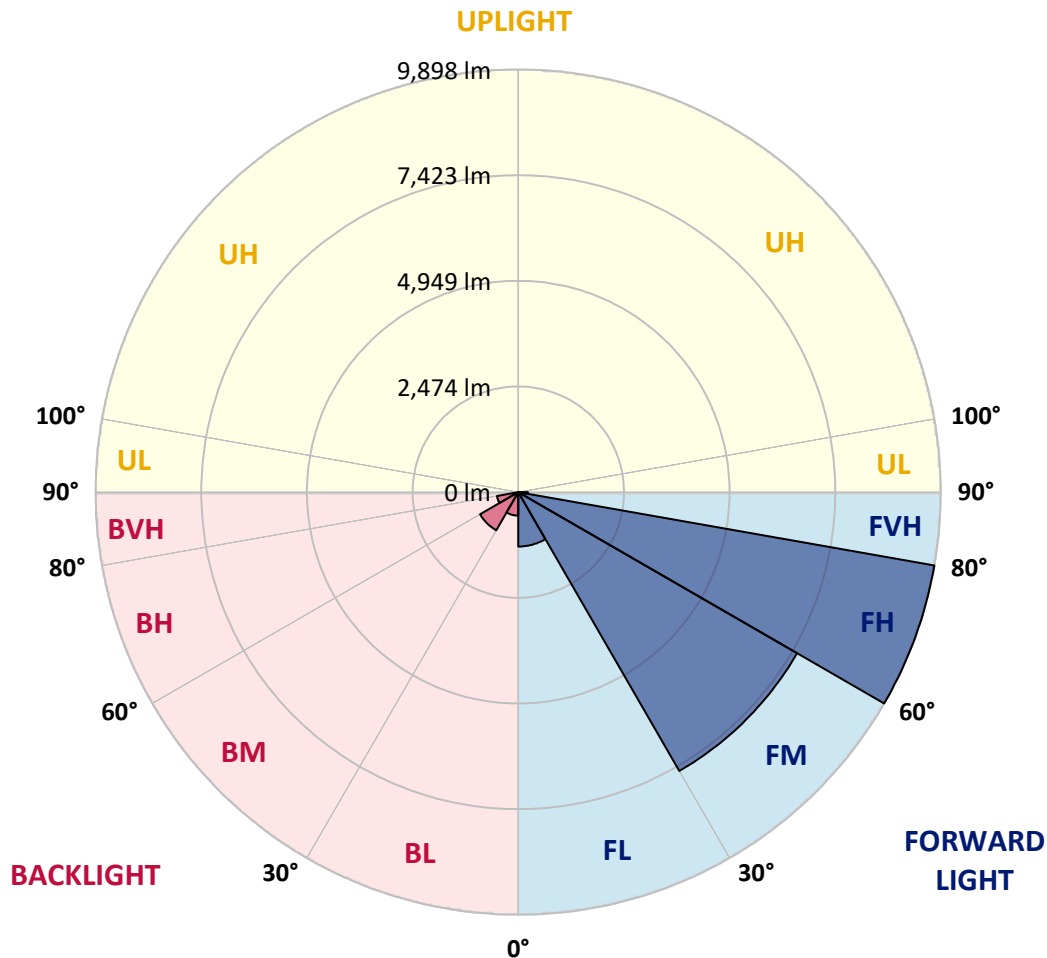


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.5	6.1			
FM (30°-60°)	7541.3	35.9			
FH (60°-80°)	9897.8	47.1			G4/12000
FVH (80°-90°)	224.8	1.1			G2/225
BL (0°-30°)	549.7	2.6	B2/1000		
BM (30°-60°)	1033.1	4.9	B2/2500		
BH (60°-80°)	506.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5
2.5°	2303.6	2288.5	2264.3	2255.2	2231.0	2218.9	2200.7	2191.6	2158.3	2125.0	2103.8
5°	2585.2	2548.8	2560.9	2524.6	2445.9	2382.3	2379.3	2309.7	2234.0	2173.5	2091.7
7.5°	2869.7	2839.4	2794.0	2742.6	2654.8	2560.9	2533.7	2467.1	2361.1	2255.2	2146.2
10°	3084.6	3063.4	3024.1	2951.4	2830.3	2724.4	2727.4	2615.4	2503.4	2382.3	2234.0
12.5°	3217.8	3226.9	3169.4	3096.7	2990.8	2857.6	2854.6	2778.9	2651.7	2524.6	2349.0
15°	3351.0	3384.3	3296.5	3211.8	3075.5	2978.7	2996.8	2906.0	2781.9	2636.6	2442.9
17.5°	3372.2	3381.3	3363.1	3239.0	3139.1	3057.4	3060.4	2999.9	2906.0	2748.6	2582.1
20°	3335.9	3329.8	3308.6	3217.8	3151.2	3102.8	3105.8	3090.7	3039.2	2912.1	2685.0
22.5°	3229.9	3229.9	3202.7	3142.1	3111.9	3157.3	3121.0	3178.5	3124.0	3048.3	2860.6
25°	3145.2	3178.5	3163.3	3124.0	3136.1	3196.6	3214.8	3269.3	3260.2	3166.4	2981.7
27.5°	3236.0	3196.6	3205.7	3160.3	3205.7	3296.5	3305.6	3345.0	3341.9	3266.3	3090.7
30°	3296.5	3332.8	3263.2	3163.3	3211.8	3366.1	3360.1	3411.6	3435.8	3345.0	3193.6
32.5°	3490.3	3460.0	3402.5	3269.3	3275.3	3363.1	3390.4	3457.0	3472.1	3417.6	3293.5
35°	3886.8	3841.4	3590.2	3390.4	3360.1	3402.5	3420.6	3550.8	3578.0	3517.5	3399.4
37.5°	4498.3	4395.4	4092.7	3650.7	3514.5	3505.4	3505.4	3677.9	3780.9	3641.6	3556.9
40°	5373.1	5227.8	4900.9	4132.0	3717.3	3753.6	3789.9	3883.8	3871.7	3780.9	3762.7
42.5°	6487.1	6375.1	6020.9	4940.2	4104.8	3923.1	3892.9	4020.0	4210.7	4174.4	4162.3
45°	7416.4	7422.5	7195.4	6048.2	4773.8	4313.6	4334.8	4431.7	4752.6	4725.3	4722.3
47.5°	8094.5	8009.7	7976.4	7116.7	5748.5	5055.3	5025.0	5091.6	5509.3	5681.9	5760.6
50°	8712.0	8654.5	8575.8	8155.0	6920.0	5984.6	5954.3	5960.4	6599.1	6841.3	7035.0
52.5°	9477.9	9550.5	9290.2	9032.9	8436.6	7192.4	7159.1	7041.1	7834.2	8167.1	8397.2
55°	10422.3	10286.1	9992.5	10125.7	9886.5	8497.1	8436.6	8297.3	9241.8	9381.0	9623.2
57.5°	10631.2	10528.3	10831.0	11303.2	11533.3	10028.8	10004.6	9753.3	10425.4	10298.2	10982.4
60°	11151.9	11179.1	11599.9	12538.3	12937.9	11796.6	11678.6	11236.6	11572.6	11596.9	12326.4
62.5°	11687.7	11624.1	12565.5	13467.6	14082.1	13470.6	13431.3	12553.4	12934.8	12626.1	13591.7
65°	11294.1	11391.0	12738.1	14248.6	15565.4	15108.3	15075.0	13821.8	14030.7	13646.2	14106.3
67.5°	9895.6	9698.9	11584.8	13891.4	16328.2	16824.7	16788.4	15205.2	14648.2	13640.2	13037.8
70°	7253.0	7083.4	8621.2	11763.4	15235.4	17702.5	17847.8	16167.8	14396.9	12368.8	10059.1
72.5°	3553.8	3556.9	4831.3	7976.4	12054.0	16134.5	16207.1	14823.8	12368.8	9117.7	5697.0
75°	1050.4	1062.5	1789.0	3911.0	7791.8	12253.7	12335.5	11251.8	8572.8	4710.2	1943.4
77.5°	384.4	384.4	593.3	1468.1	3886.8	7734.3	7728.2	6907.9	4340.9	1595.3	454.1
80°	199.8	208.9	308.8	599.4	1683.1	4029.1	4180.4	3381.3	1649.8	672.0	133.2
82.5°	81.7	90.8	169.5	308.8	808.2	1413.7	1546.9	1325.9	717.4	469.2	60.5
85°	24.2	27.2	81.7	172.5	317.8	354.2	393.5	445.0	451.0	363.3	27.2
87.5°	3.0	3.0	33.3	57.5	69.6	75.7	87.8	87.8	230.1	254.3	15.1
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°	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5	2064.5
2.5°	2079.6	2064.5	2040.3	1985.8	1973.7	1934.3	1931.3	1895.0	1907.1	1882.9	1873.8
5°	2064.5	2031.2	1964.6	1922.2	1879.8	1852.6	1834.4	1819.3	1816.3	1804.2	1798.1
7.5°	2091.7	2046.3	1943.4	1876.8	1804.2	1779.9	1740.6	1737.6	1716.4	1695.2	1695.2
10°	2182.5	2100.8	1988.8	1876.8	1783.0	1704.3	1613.4	1546.9	1522.6	1468.1	1474.2
12.5°	2255.2	2182.5	2019.1	1904.1	1761.8	1583.2	1383.4	1229.0	1156.4	1086.7	1114.0
15°	2358.1	2252.2	2076.6	1910.1	1680.0	1371.3	1044.4	871.8	805.2	790.1	787.0
17.5°	2470.1	2358.1	2149.2	1895.0	1513.6	1059.5	768.9	669.0	681.1	699.3	696.2
20°	2594.2	2458.0	2203.7	1843.5	1250.2	768.9	629.6	626.6	644.8	672.0	678.1
22.5°	2724.4	2606.3	2270.3	1689.1	932.3	617.5	605.4	605.4	617.5	650.8	644.8
25°	2869.7	2712.3	2303.6	1450.0	669.0	569.1	575.2	587.3	593.3	620.6	623.6
27.5°	2981.7	2830.3	2312.7	1162.4	544.9	526.7	541.9	557.0	566.1	587.3	596.3
30°	3084.6	2978.7	2264.3	865.8	499.5	490.4	496.4	517.6	535.8	554.0	554.0
32.5°	3214.8	3063.4	2152.3	614.5	472.2	457.1	454.1	463.1	484.3	505.5	505.5
35°	3348.0	3205.7	1973.7	493.4	448.0	426.8	414.7	405.6	414.7	429.8	442.0
37.5°	3541.7	3420.6	1749.7	454.1	429.8	399.6	375.4	354.2	339.0	336.0	345.1
40°	3817.2	3662.8	1462.1	426.8	408.7	372.3	336.0	299.7	266.4	245.2	248.2
42.5°	4234.9	4020.0	1150.3	411.7	393.5	342.1	290.6	239.1	196.8	175.6	175.6
45°	4831.3	4492.2	844.6	396.6	375.4	305.7	239.1	178.6	136.2	124.1	127.1
47.5°	5730.3	5061.3	605.4	372.3	351.1	266.4	187.7	127.1	99.9	93.8	96.9
50°	6904.8	5736.4	472.2	345.1	320.9	224.0	139.2	93.8	78.7	75.7	78.7
52.5°	8136.9	6417.5	414.7	320.9	275.5	178.6	102.9	75.7	66.6	63.6	66.6
55°	9190.3	6856.4	360.2	284.5	221.0	133.2	81.7	66.6	57.5	48.4	48.4
57.5°	10255.8	7077.4	284.5	236.1	163.5	99.9	69.6	57.5	48.4	39.4	36.3
60°	11121.6	7234.8	202.8	175.6	115.0	78.7	60.5	51.5	39.4	30.3	27.2
62.5°	11690.7	6783.8	148.3	133.2	84.8	66.6	51.5	42.4	30.3	21.2	21.2
65°	11409.2	6160.2	115.0	93.8	63.6	51.5	42.4	30.3	21.2	12.1	9.1
67.5°	10237.7	5018.9	93.8	69.6	48.4	39.4	33.3	24.2	12.1	3.0	3.0
70°	7637.4	3677.9	75.7	51.5	39.4	30.3	24.2	15.1	6.1	3.0	0.0
72.5°	4177.4	2013.0	60.5	42.4	30.3	24.2	18.2	12.1	6.1	0.0	0.0
75°	1380.4	535.8	45.4	30.3	18.2	15.1	12.1	9.1	3.0	0.0	0.0
77.5°	333.0	139.2	36.3	27.2	15.1	9.1	6.1	3.0	3.0	0.0	0.0
80°	102.9	57.5	27.2	18.2	12.1	9.1	3.0	0.0	0.0	0.0	0.0
82.5°	42.4	27.2	12.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	15.1	9.1	6.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.1	3.0	3.0	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)