

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: P483565

Luminaire Tested: **IFLD-L-SA7C-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483565
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

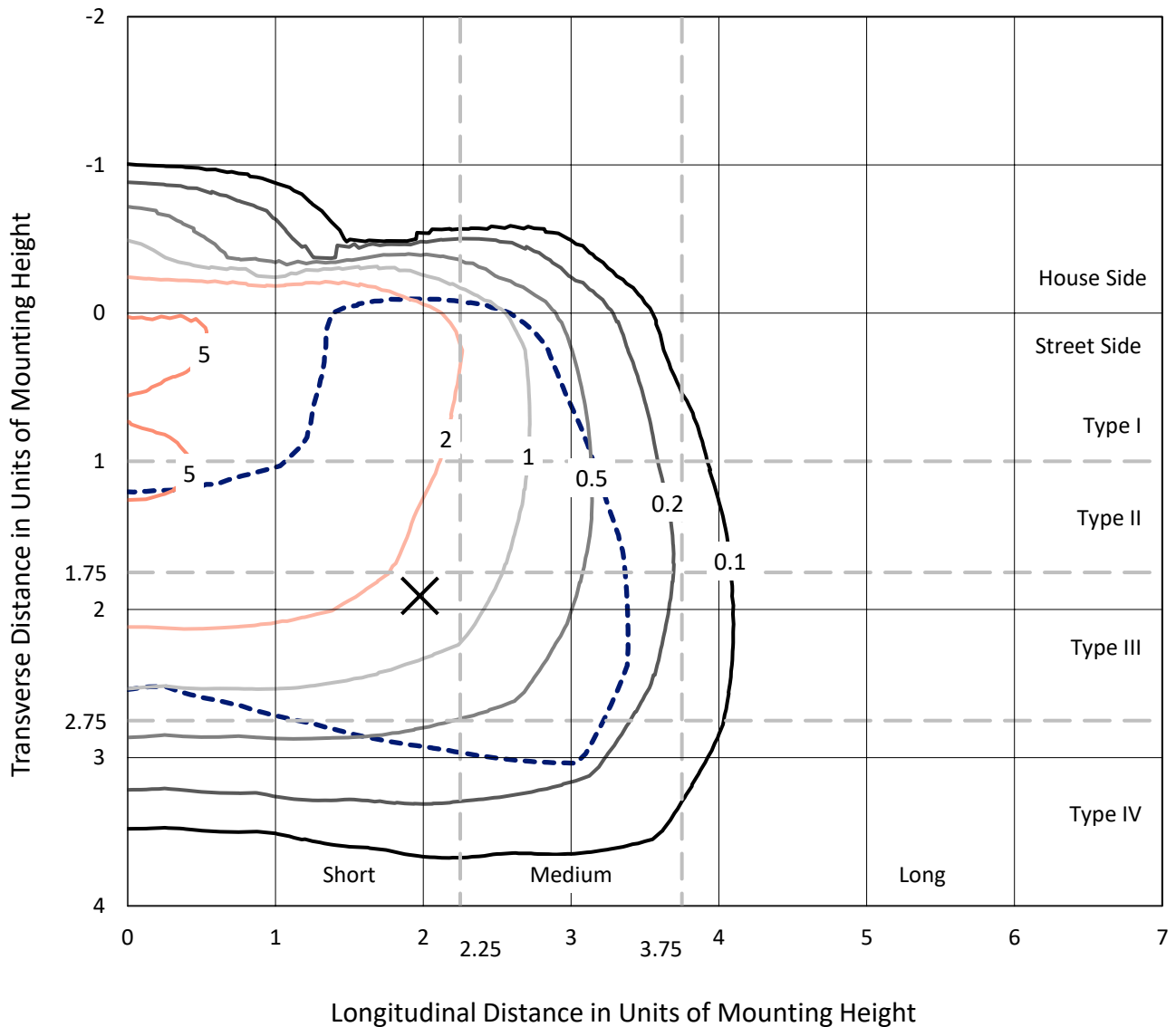
Lumens per Lamp: N/A
Luminaire Lumens: 29784.7 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

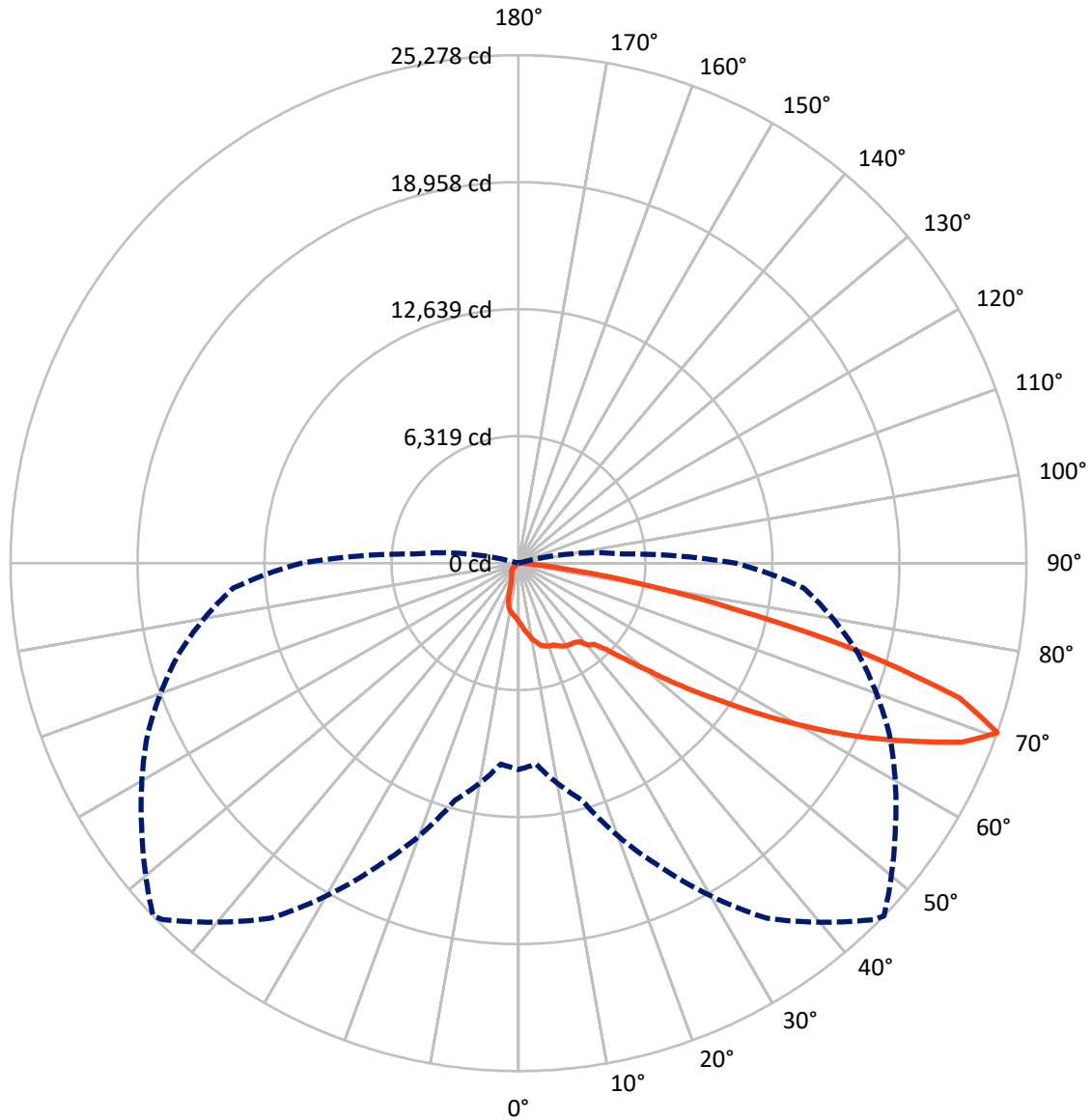
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2963.7	0.0	2963.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	26821.1	0.0	26821.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	29784.7	0.0	29784.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.0
10°-20°	880.4	3.0
20°-30°	1410.3	4.7
30°-40°	2013.0	6.8
40°-50°	3475.9	11.7
50°-60°	6655.0	22.3
60°-70°	9854.9	33.1
70°-80°	4881.1	16.4
80°-90°	322.5	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°	29784.7	100.0
0°-180°	29784.7	100.0

Coefficient of Utilization

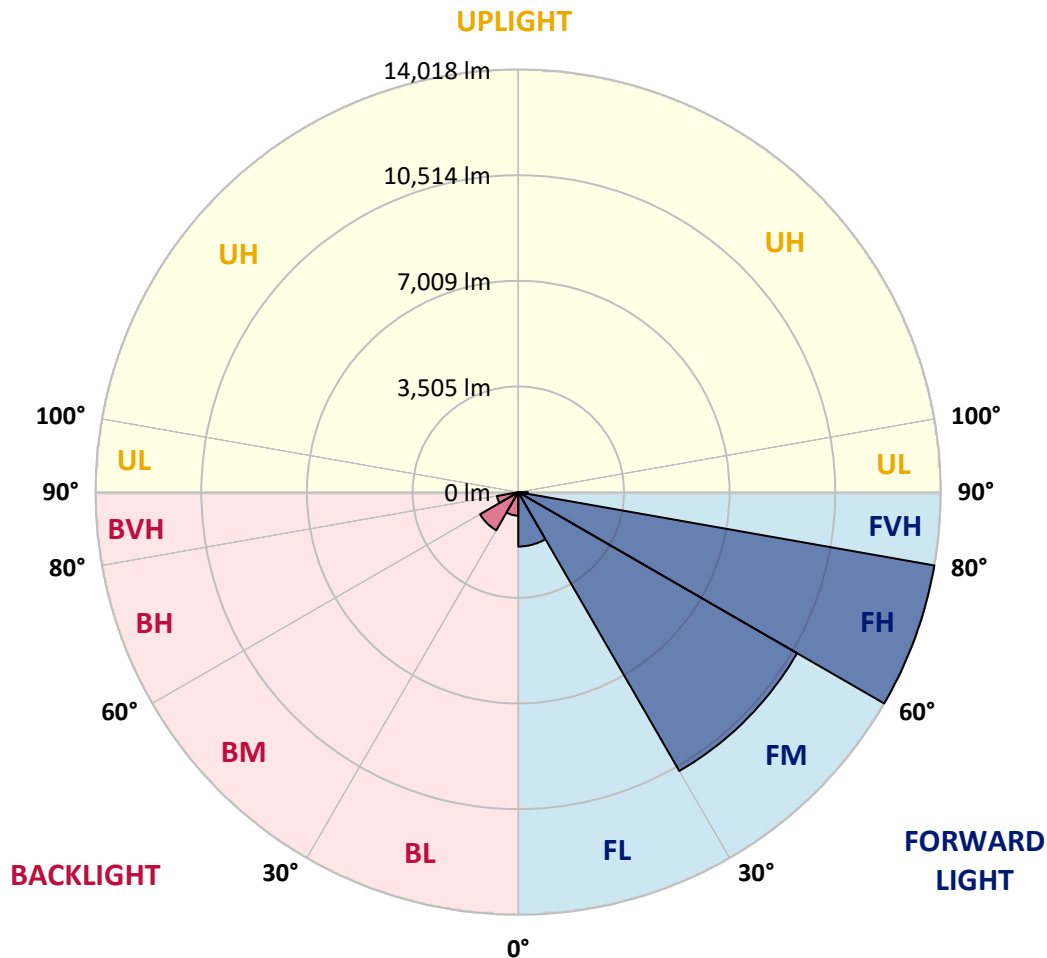


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.7	6.1			
FM (30°-60°)	10680.7	35.9			
FH (60°-80°)	14018.2	47.1			G5
FVH (80°-90°)	318.4	1.1			G3/500
BL (0°-30°)	778.6	2.6	B2/1000		
BM (30°-60°)	1463.2	4.9	B2/2500		
BH (60°-80°)	717.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9
2.5°	3262.6	3241.2	3206.9	3194.0	3159.7	3142.6	3116.9	3104.0	3056.8	3009.7	2979.7
5°	3661.3	3609.9	3627.0	3575.6	3464.1	3374.1	3369.8	3271.2	3164.0	3078.3	2962.5
7.5°	4064.4	4021.5	3957.2	3884.3	3760.0	3627.0	3588.5	3494.1	3344.1	3194.0	3039.7
10°	4368.7	4338.7	4283.0	4180.1	4008.6	3858.6	3862.8	3704.2	3545.6	3374.1	3164.0
12.5°	4557.4	4570.3	4488.8	4385.9	4235.8	4047.2	4042.9	3935.7	3755.7	3575.6	3326.9
15°	4746.0	4793.2	4668.9	4548.8	4355.9	4218.7	4244.4	4115.8	3940.0	3734.2	3459.8
17.5°	4776.0	4788.9	4763.2	4587.4	4445.9	4330.2	4334.4	4248.7	4115.8	3892.9	3657.1
20°	4724.6	4716.0	4686.0	4557.4	4463.1	4394.5	4398.8	4377.3	4304.4	4124.4	3802.8
22.5°	4574.5	4574.5	4536.0	4450.2	4407.3	4471.6	4420.2	4501.7	4424.5	4317.3	4051.5
25°	4454.5	4501.7	4480.2	4424.5	4441.6	4527.4	4553.1	4630.3	4617.4	4484.5	4223.0
27.5°	4583.1	4527.4	4540.2	4475.9	4540.2	4668.9	4681.7	4737.5	4733.2	4626.0	4377.3
30°	4668.9	4720.3	4621.7	4480.2	4548.8	4767.5	4758.9	4831.8	4866.1	4737.5	4523.1
32.5°	4943.2	4900.4	4818.9	4630.3	4638.8	4763.2	4801.8	4896.1	4917.5	4840.3	4664.6
35°	5504.9	5440.6	5084.7	4801.8	4758.9	4818.9	4844.6	5029.0	5067.6	4981.8	4814.6
37.5°	6370.9	6225.1	5796.4	5170.5	4977.5	4964.7	4964.7	5209.1	5354.8	5157.6	5037.6
40°	7609.9	7404.1	6941.1	5852.1	5264.8	5316.2	5367.7	5500.6	5483.4	5354.8	5329.1
42.5°	9187.7	9029.0	8527.4	6996.9	5813.6	5556.3	5513.5	5693.5	5963.6	5912.2	5895.0
45°	10503.9	10512.4	10190.9	8566.0	6761.1	6109.4	6139.4	6276.6	6731.0	6692.5	6688.2
47.5°	11464.2	11344.2	11297.0	10079.4	8141.6	7159.8	7116.9	7211.2	7802.9	8047.2	8158.7
50°	12338.8	12257.4	12145.9	11550.0	9800.7	8476.0	8433.1	8441.7	9346.3	9689.3	9963.7
52.5°	13423.5	13526.4	13157.7	12793.3	11948.7	10186.6	10139.4	9972.2	11095.5	11567.1	11892.9
55°	14761.1	14568.2	14152.3	14341.0	14002.3	12034.4	11948.7	11751.5	13089.1	13286.3	13629.3
57.5°	15057.0	14911.2	15339.9	16008.7	16334.6	14203.8	14169.5	13813.6	14765.4	14585.4	15554.3
60°	15794.4	15833.0	16428.9	17758.0	18323.9	16707.6	16540.4	15914.4	16390.3	16424.6	17457.8
62.5°	16553.2	16463.2	17796.5	19074.1	19944.5	19078.4	19022.7	17779.4	18319.6	17882.3	19249.9
65°	15995.9	16133.1	18040.9	20180.3	22045.2	21397.9	21350.7	19575.8	19871.6	19327.1	19978.8
67.5°	14015.1	13736.5	16407.5	19674.4	23125.6	23828.8	23777.3	21535.1	20746.2	19318.5	18465.4
70°	10272.3	10032.3	12210.2	16660.4	21577.9	25072.1	25277.9	22898.4	20390.3	17517.9	14246.7
72.5°	5033.3	5037.6	6842.5	11297.0	17072.0	22851.3	22954.1	20994.9	17517.9	12913.3	8068.7
75°	1487.7	1504.8	2533.8	5539.2	11035.5	17354.9	17470.7	15935.9	12141.6	6671.0	2752.4
77.5°	544.5	544.5	840.3	2079.3	5504.9	10954.0	10945.4	9783.6	6148.0	2259.4	643.1
80°	283.0	295.8	437.3	848.9	2383.7	5706.4	5920.7	4788.9	2336.6	951.8	188.6
82.5°	115.8	128.6	240.1	437.3	1144.7	2002.2	2190.8	1877.8	1016.1	664.5	85.7
85°	34.3	38.6	115.8	244.4	450.2	501.6	557.3	630.2	638.8	514.5	38.6
87.5°	4.3	4.3	47.2	81.5	98.6	107.2	124.3	124.3	325.8	360.1	21.4
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°	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9	2923.9
2.5°	2945.4	2923.9	2889.6	2812.5	2795.3	2739.6	2735.3	2683.8	2701.0	2666.7	2653.8
5°	2923.9	2876.8	2782.5	2722.4	2662.4	2623.8	2598.1	2576.7	2572.4	2555.2	2546.6
7.5°	2962.5	2898.2	2752.4	2658.1	2555.2	2520.9	2465.2	2460.9	2430.9	2400.9	2400.9
10°	3091.1	2975.4	2816.7	2658.1	2525.2	2413.7	2285.1	2190.8	2156.5	2079.3	2087.9
12.5°	3194.0	3091.1	2859.6	2696.7	2495.2	2242.3	1959.3	1740.6	1637.7	1539.1	1577.7
15°	3339.8	3189.7	2941.1	2705.3	2379.4	1942.1	1479.1	1234.7	1140.4	1119.0	1114.7
17.5°	3498.4	3339.8	3044.0	2683.8	2143.6	1500.6	1089.0	947.5	964.6	990.4	986.1
20°	3674.2	3481.3	3121.1	2611.0	1770.7	1089.0	891.8	887.5	913.2	951.8	960.4
22.5°	3858.6	3691.4	3215.5	2392.3	1320.5	874.6	857.5	857.5	874.6	921.8	913.2
25°	4064.4	3841.4	3262.6	2053.6	947.5	806.0	814.6	831.7	840.3	878.9	883.2
27.5°	4223.0	4008.6	3275.5	1646.3	771.7	746.0	767.4	788.9	801.7	831.7	844.6
30°	4368.7	4218.7	3206.9	1226.2	707.4	694.5	703.1	733.1	758.9	784.6	784.6
32.5°	4553.1	4338.7	3048.3	870.3	668.8	647.4	643.1	656.0	686.0	716.0	716.0
35°	4741.7	4540.2	2795.3	698.8	634.5	604.5	587.4	574.5	587.4	608.8	625.9
37.5°	5016.1	4844.6	2478.1	643.1	608.8	565.9	531.6	501.6	480.2	475.9	488.8
40°	5406.3	5187.6	2070.8	604.5	578.8	527.3	475.9	424.4	377.3	347.3	351.6
42.5°	5997.9	5693.5	1629.2	583.1	557.3	484.5	411.6	338.7	278.7	248.7	248.7
45°	6842.5	6362.3	1196.2	561.6	531.6	433.0	338.7	253.0	192.9	175.8	180.1
47.5°	8115.8	7168.3	857.5	527.3	497.3	377.3	265.8	180.1	141.5	132.9	137.2
50°	9779.3	8124.4	668.8	488.8	454.5	317.3	197.2	132.9	111.5	107.2	111.5
52.5°	11524.2	9089.1	587.4	454.5	390.1	253.0	145.8	107.2	94.3	90.0	94.3
55°	13016.2	9710.7	510.2	403.0	313.0	188.6	115.8	94.3	81.5	68.6	68.6
57.5°	14525.3	10023.7	403.0	334.4	231.5	141.5	98.6	81.5	68.6	55.7	51.4
60°	15751.5	10246.6	287.2	248.7	162.9	111.5	85.7	72.9	55.7	42.9	38.6
62.5°	16557.5	9607.8	210.1	188.6	120.0	94.3	72.9	60.0	42.9	30.0	30.0
65°	16158.8	8724.6	162.9	132.9	90.0	72.9	60.0	42.9	30.0	17.1	12.9
67.5°	14499.6	7108.3	132.9	98.6	68.6	55.7	47.2	34.3	17.1	4.3	4.3
70°	10816.8	5209.1	107.2	72.9	55.7	42.9	34.3	21.4	8.6	4.3	0.0
72.5°	5916.5	2851.0	85.7	60.0	42.9	34.3	25.7	17.1	8.6	0.0	0.0
75°	1955.0	758.9	64.3	42.9	25.7	21.4	17.1	12.9	4.3	0.0	0.0
77.5°	471.6	197.2	51.4	38.6	21.4	12.9	8.6	4.3	4.3	0.0	0.0
80°	145.8	81.5	38.6	25.7	17.1	12.9	4.3	0.0	0.0	0.0	0.0
82.5°	60.0	38.6	17.1	17.1	12.9	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.0	21.4	12.9	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	8.6	4.3	4.3	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)