

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: P484964

Luminaire Tested: **IFLD-M-SA4C-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484964
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

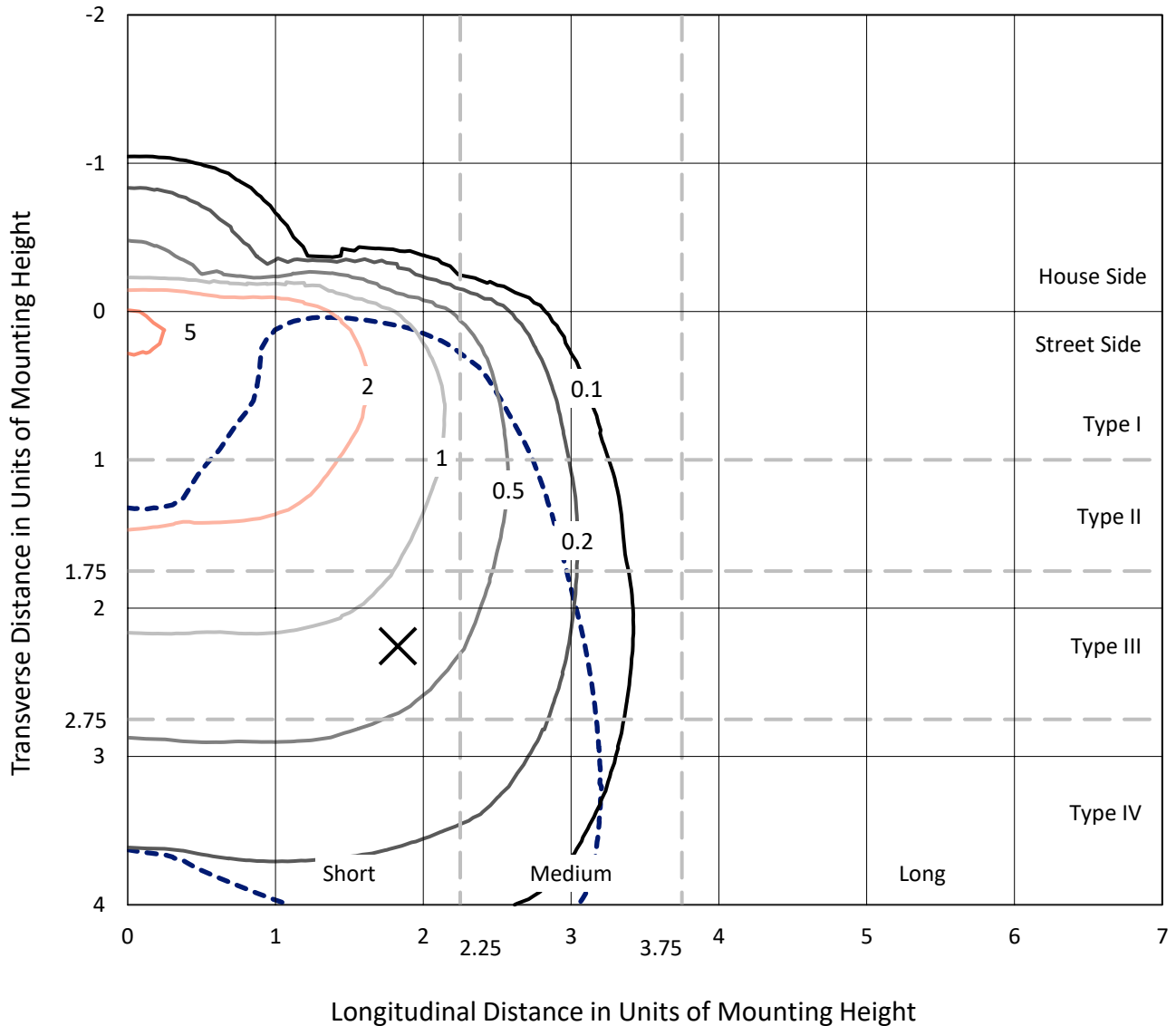
Lumens per Lamp: N/A
Luminaire Lumens: 18663.5 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 218.1
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

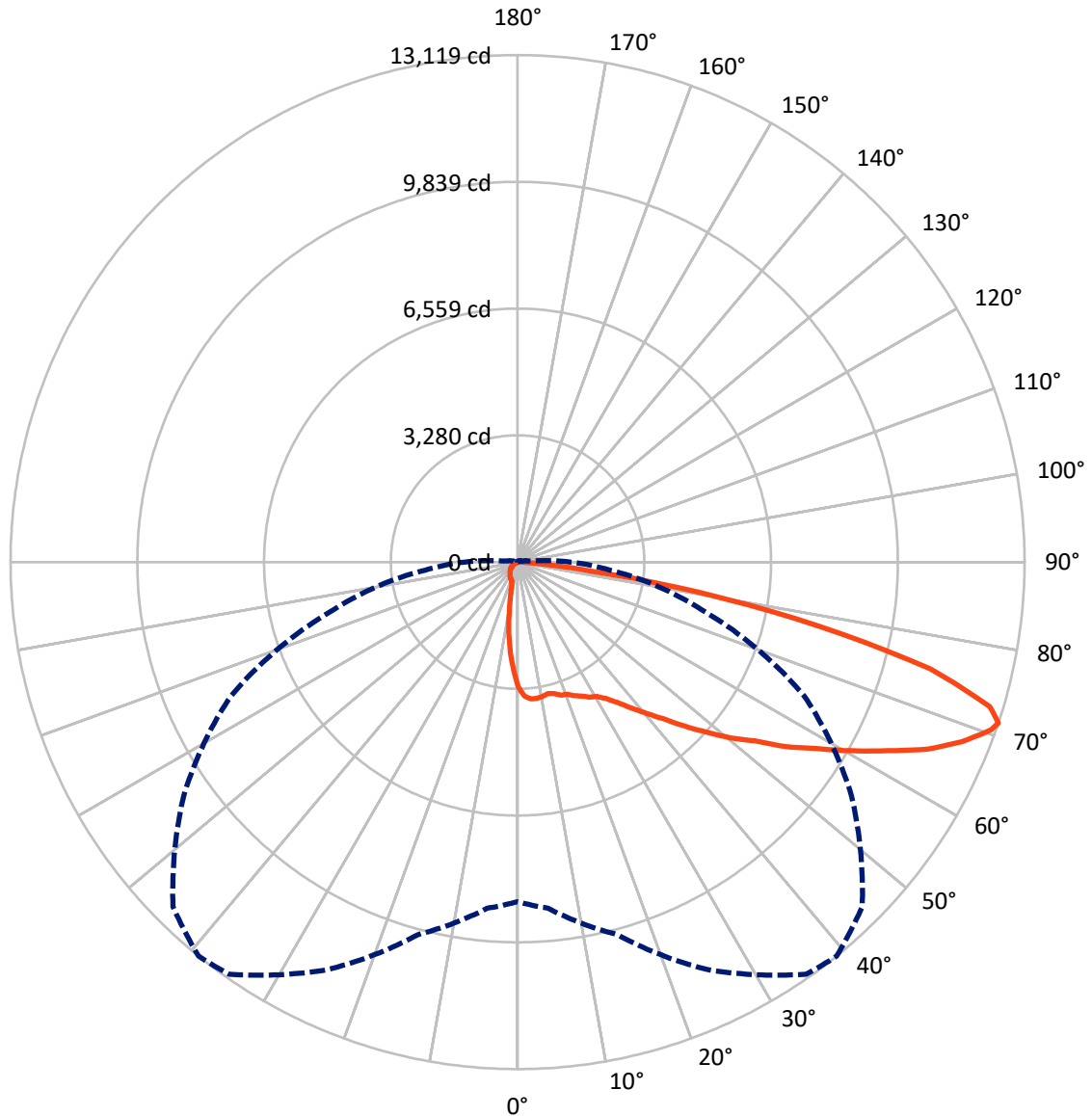
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.1	0.0	1405.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17258.4	0.0	17258.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	18663.5	0.0	18663.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.5
10°-20°	668.5	3.6
20°-30°	1073.2	5.8
30°-40°	1642.7	8.8
40°-50°	2636.9	14.1
50°-60°	3873.2	20.8
60°-70°	4878.1	26.1
70°-80°	3255.5	17.4
80°-90°	363.8	1.9
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°	18663.5	100.0
0°-180°	18663.5	100.0

Coefficient of Utilization

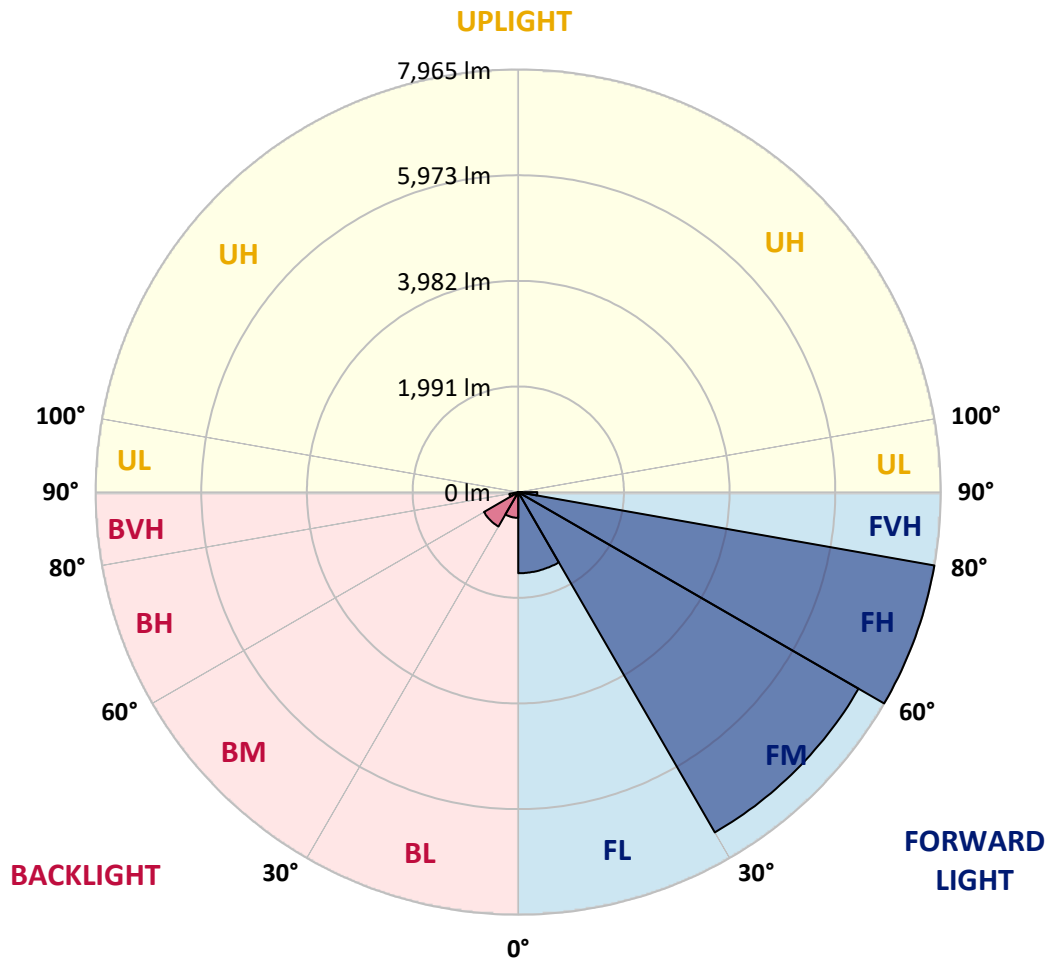


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.1	8.2			
FM (30°-60°)	7405.9	39.7			
FH (60°-80°)	7964.5	42.7			G4/12000
FVH (80°-90°)	359.8	1.9			G3/500
BL (0°-30°)	485.1	2.6	B1/500		
BM (30°-60°)	746.8	4.0	B1/1000		
BH (60°-80°)	169.1	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3500.6	3534.9	3500.6	3486.0	3471.3	3473.7	3434.5	3441.9	3395.4	3334.2	3285.2
5°	3610.8	3657.3	3620.6	3603.5	3601.0	3554.5	3534.9	3488.4	3432.1	3336.6	3277.9
7.5°	3601.0	3591.2	3608.4	3593.7	3561.8	3561.8	3539.8	3473.7	3417.4	3309.7	3209.3
10°	3527.6	3556.9	3542.3	3525.1	3532.5	3534.9	3493.3	3446.8	3429.7	3321.9	3157.9
12.5°	3520.2	3471.3	3525.1	3527.6	3495.7	3493.3	3488.4	3476.2	3422.3	3324.4	3170.2
15°	3495.7	3476.2	3530.0	3532.5	3539.8	3532.5	3539.8	3530.0	3476.2	3419.9	3224.0
17.5°	3515.3	3493.3	3569.2	3605.9	3588.8	3623.0	3610.8	3566.7	3520.2	3454.1	3275.4
20°	3520.2	3552.1	3635.3	3650.0	3703.8	3647.5	3645.1	3598.6	3569.2	3498.2	3307.3
22.5°	3610.8	3625.5	3728.3	3760.1	3762.6	3755.2	3694.0	3640.2	3627.9	3539.8	3314.6
25°	3747.9	3799.3	3845.8	3865.4	3872.7	3838.5	3774.8	3706.3	3676.9	3620.6	3390.5
27.5°	3990.2	3958.4	4000.0	4029.4	3946.2	3958.4	3877.6	3818.9	3777.3	3728.3	3478.6
30°	4205.7	4176.3	4178.7	4173.8	4102.9	4036.8	4014.7	3911.9	3860.5	3880.1	3615.7
32.5°	4399.1	4335.4	4389.3	4364.8	4232.6	4213.0	4195.9	4066.1	4075.9	4166.5	3821.3
35°	4577.8	4555.7	4599.8	4555.7	4467.6	4462.7	4445.6	4333.0	4386.8	4516.6	4173.8
37.5°	4741.8	4749.1	4803.0	4780.9	4788.3	4793.2	4783.4	4663.4	4817.7	5109.0	4585.1
40°	4893.6	4883.8	5016.0	5084.5	5099.2	5153.0	5153.0	5123.7	5361.1	5689.2	5155.5
42.5°	5055.1	5079.6	5251.0	5366.0	5505.6	5552.1	5615.7	5630.4	5997.6	6372.2	5738.1
45°	5319.5	5277.9	5495.8	5767.5	5889.9	6053.9	6151.8	6235.1	6678.2	7192.2	6320.7
47.5°	5654.9	5571.7	5762.6	6156.7	6440.7	6575.3	6751.6	6861.8	7295.0	7826.3	6871.5
50°	6027.0	5941.3	6034.3	6577.8	6908.3	7153.1	7378.3	7517.8	8041.7	8536.2	7273.0
52.5°	6448.0	6369.7	6384.4	7016.0	7503.1	7681.8	7978.0	8186.1	8707.5	8964.6	7415.0
55°	6896.0	6876.4	6829.9	7444.4	8024.6	8426.0	8604.7	8854.4	9390.5	9197.1	7569.2
57.5°	7346.5	7285.3	7351.4	8012.3	8861.8	9101.7	9348.9	9498.3	9770.0	9400.3	7510.5
60°	7770.0	7774.9	7867.9	8629.2	9574.1	9914.4	10137.2	10046.6	10159.2	9488.5	7375.8
62.5°	8127.4	8117.6	8352.6	9322.0	10516.6	10746.7	10913.2	10509.3	10340.4	9574.1	7140.8
65°	8448.1	8558.2	8927.9	10147.0	11402.8	11667.2	11566.8	10947.5	10516.6	9322.0	6479.9
67.5°	8690.4	8854.4	9495.8	10923.0	12215.5	12401.6	12262.0	11280.4	10308.5	8333.0	5277.9
70°	8832.4	8998.9	9902.2	11569.3	12864.3	12998.9	12670.9	11023.4	9094.3	6034.3	3292.6
71°	8788.3	8991.5	9980.5	11637.8	13018.5	13118.8	12609.7	10548.4	8178.8	5052.7	2401.5
72.5°	8389.3	8580.3	9654.9	11588.8	12832.4	12771.2	12132.3	9407.7	6438.2	3221.6	1241.1
75°	6164.1	6369.7	8286.5	10024.6	11454.2	11033.1	9818.9	6602.3	3358.7	986.5	362.3
77.5°	3069.8	3104.1	5143.3	7277.9	8401.5	7982.9	6580.2	3681.8	1255.8	291.3	181.2
80°	1414.9	1424.7	1929.0	3769.9	5079.6	4780.9	3686.7	1816.4	567.9	154.2	142.0
82.5°	964.5	979.2	1162.8	1561.8	2205.7	1860.5	1493.3	1162.8	325.6	93.0	139.5
85°	176.3	161.6	651.2	827.4	851.9	577.7	516.5	1006.1	122.4	53.9	122.4
87.5°	0.0	2.4	90.6	337.8	303.6	134.6	176.3	244.8	12.2	17.1	22.0
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°	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5	3248.5
2.5°	3243.6	3216.7	3126.1	3025.7	2935.2	2864.2	2773.6	2732.0	2665.9	2629.2	2626.7
5°	3197.1	3123.7	2967.0	2798.1	2609.6	2452.9	2279.1	2181.2	2068.6	2034.3	2026.9
7.5°	3118.8	3013.5	2783.4	2545.9	2257.1	1980.4	1767.5	1539.8	1400.3	1341.5	1319.5
10°	3069.8	2942.5	2629.2	2274.2	1870.3	1481.0	1182.4	940.0	812.7	751.5	736.8
12.5°	3069.8	2932.7	2504.3	2014.7	1478.6	1013.5	732.0	592.4	550.8	536.1	536.1
15°	3062.5	2913.1	2384.4	1747.9	1094.3	680.5	545.9	516.5	511.6	509.2	506.7
17.5°	3099.2	2878.9	2262.0	1461.5	773.6	536.1	501.8	496.9	492.0	492.0	487.2
20°	3126.1	2859.3	2115.1	1157.9	577.7	496.9	482.3	474.9	472.5	470.0	474.9
22.5°	3104.1	2829.9	1933.9	866.6	504.3	472.5	462.7	455.3	450.4	450.4	452.9
25°	3145.7	2803.0	1752.8	653.6	472.5	450.4	440.6	435.7	433.3	430.8	426.0
27.5°	3202.0	2815.2	1537.3	526.3	445.5	428.4	418.6	413.7	411.3	406.4	411.3
30°	3270.5	2812.8	1299.9	460.2	421.1	403.9	394.1	391.7	386.8	384.3	386.8
32.5°	3388.0	2876.4	1055.1	426.0	394.1	379.4	369.6	367.2	364.8	362.3	359.9
35°	3640.2	2954.7	825.0	399.0	369.6	352.5	345.2	340.3	337.8	335.4	332.9
37.5°	3951.1	3128.5	629.1	374.5	345.2	328.0	320.7	318.2	308.4	306.0	303.6
40°	4340.3	3314.6	484.7	347.6	323.1	306.0	298.7	291.3	279.1	274.2	269.3
42.5°	4825.0	3495.7	399.0	323.1	298.7	286.4	274.2	261.9	252.1	242.4	237.5
45°	5309.7	3706.3	350.1	301.1	279.1	264.4	254.6	237.5	220.3	205.6	203.2
47.5°	5713.6	3782.2	320.7	276.6	259.5	247.2	232.6	210.5	186.0	171.4	168.9
50°	6014.7	3738.1	291.3	252.1	237.5	225.2	205.6	178.7	154.2	139.5	134.6
52.5°	6073.5	3544.7	264.4	232.6	215.4	200.7	178.7	149.3	122.4	107.7	105.3
55°	6031.9	3224.0	242.4	215.4	195.8	173.8	149.3	120.0	95.5	80.8	78.3
57.5°	5946.2	2844.6	217.9	193.4	171.4	149.3	122.4	97.9	71.0	56.3	56.3
60°	5654.9	2328.1	193.4	168.9	146.9	127.3	100.4	71.0	49.0	36.7	34.3
62.5°	5248.5	1789.5	168.9	144.4	127.3	105.3	78.3	51.4	29.4	19.6	19.6
65°	4506.8	1253.4	142.0	120.0	105.3	85.7	58.8	31.8	17.1	7.3	7.3
67.5°	3424.8	776.0	117.5	100.4	90.6	68.5	41.6	19.6	7.3	2.4	0.0
70°	1965.7	403.9	93.0	80.8	71.0	51.4	29.4	9.8	4.9	0.0	0.0
71°	1373.3	298.7	83.2	71.0	63.6	46.5	24.5	7.3	2.4	0.0	0.0
72.5°	687.9	198.3	71.0	58.8	51.4	36.7	19.6	7.3	2.4	0.0	0.0
75°	244.8	127.3	49.0	39.2	36.7	26.9	12.2	4.9	2.4	0.0	0.0
77.5°	168.9	102.8	34.3	24.5	24.5	17.1	7.3	2.4	2.4	0.0	0.0
80°	154.2	56.3	22.0	14.7	12.2	9.8	4.9	2.4	0.0	0.0	0.0
82.5°	154.2	41.6	12.2	9.8	7.3	4.9	2.4	0.0	0.0	0.0	0.0
85°	107.7	22.0	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	7.3	4.9	2.4	2.4	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)