

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: P484261

Luminaire Tested: **IFLD-M-SA4B-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484261
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

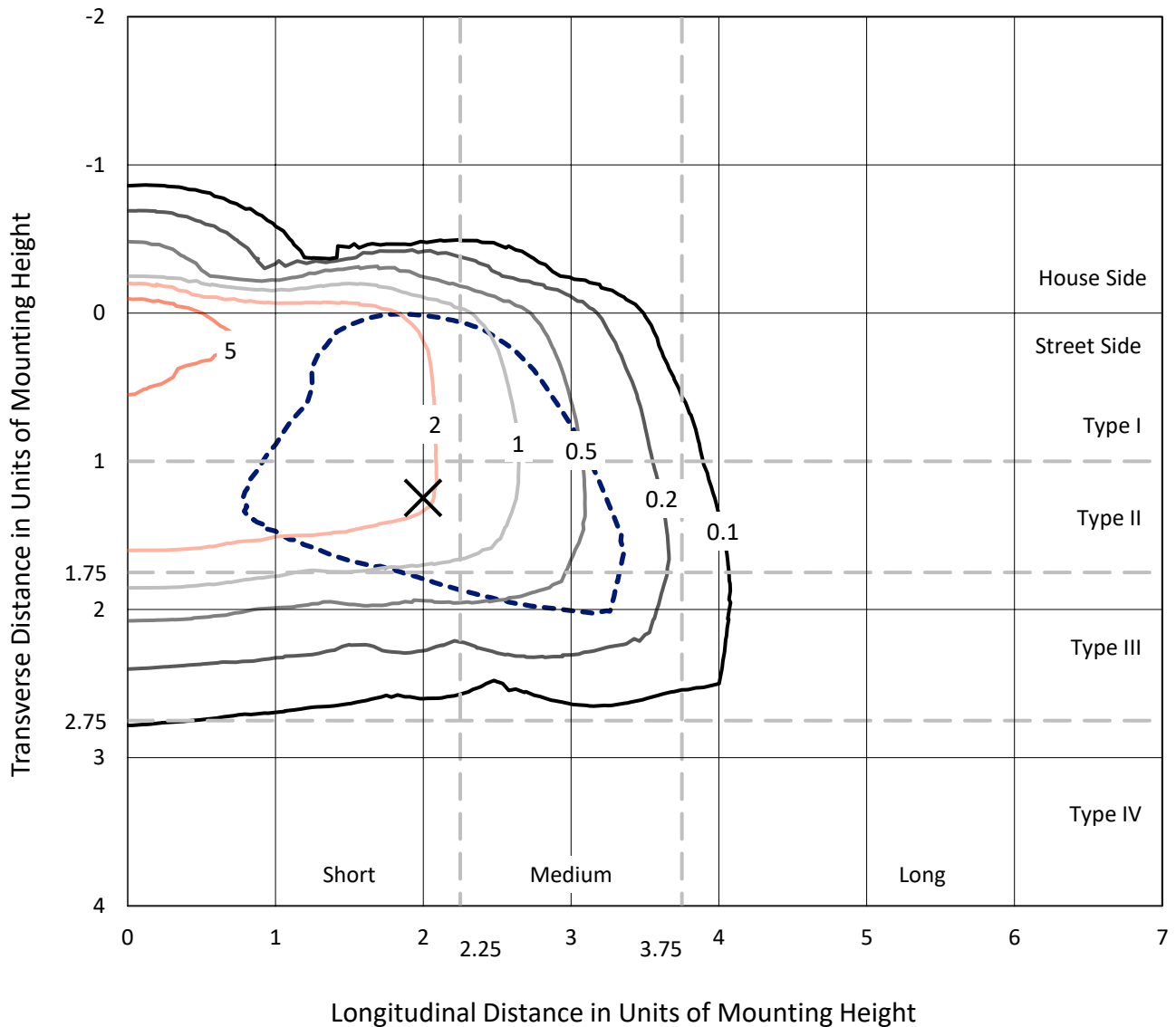
Lumens per Lamp: N/A
Luminaire Lumens: 14069.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

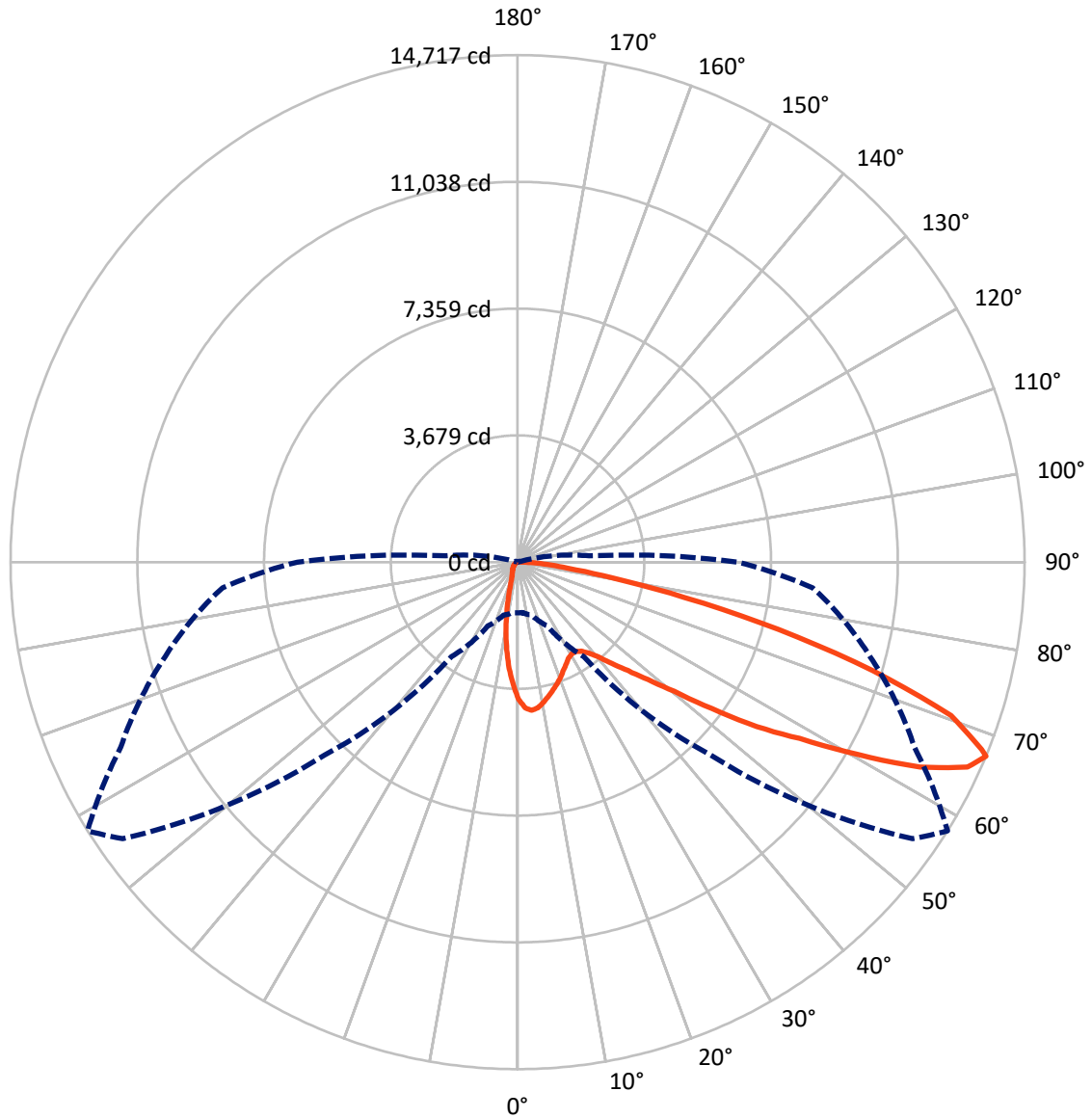
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.9	0.0	1162.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	12906.5	0.0	12906.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	14069.4	0.0	14069.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	2.2
10°-20°	656.0	4.7
20°-30°	870.4	6.2
30°-40°	1206.1	8.6
40°-50°	1968.0	14.0
50°-60°	3459.1	24.6
60°-70°	3831.2	27.2
70°-80°	1587.6	11.3
80°-90°	174.8	1.2
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°	14069.4	100.0
0°-180°	14069.4	100.0

Coefficient of Utilization



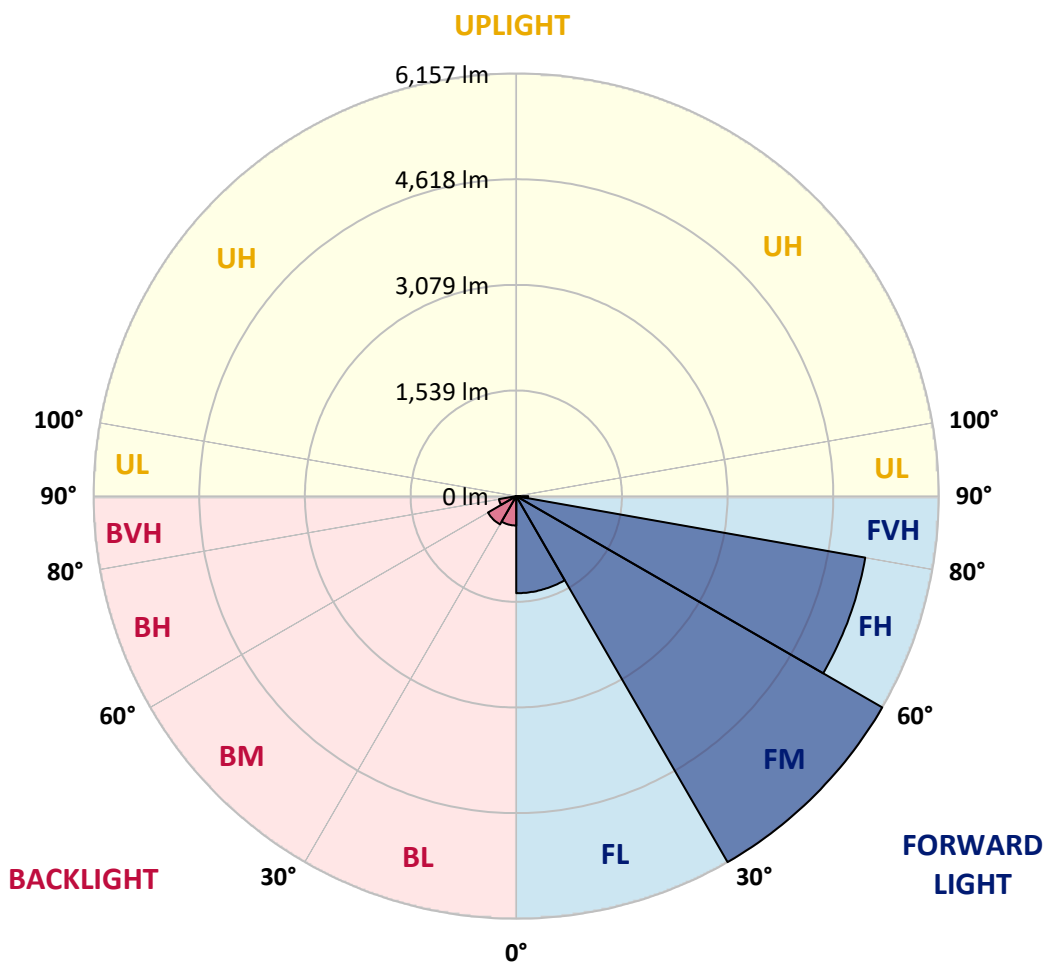
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.4	10.1			
FM (30°-60°)	6157.1	43.8			
FH (60°-80°)	5163.2	36.7			G3/7500
FVH (80°-90°)	171.9	1.2			G2/225
BL (0°-30°)	428.3	3.0	B1/500		
BM (30°-60°)	476.1	3.4	B1/1000		
BH (60°-80°)	255.7	1.8	B1/500		G1/500
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: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	4337.2	4352.2	4365.2	4341.0	4361.5	4331.6	4255.0	4238.2	4225.2	4111.2	4045.8
5°	4335.4	4318.5	4331.6	4342.8	4314.8	4337.2	4318.5	4320.4	4270.0	4167.2	3984.2
7.5°	4045.8	4038.4	4045.8	4100.0	4161.6	4210.2	4238.2	4266.2	4232.6	4079.5	3902.0
10°	3655.4	3692.8	3713.4	3810.5	3905.7	3995.4	4083.2	4135.5	4126.2	4064.5	3812.4
12.5°	3382.7	3371.5	3446.2	3509.8	3605.0	3786.2	3939.4	3987.9	4044.0	3958.0	3694.7
15°	3130.6	3100.7	3145.5	3255.7	3418.2	3562.1	3776.9	3849.7	3920.7	3943.1	3631.2
17.5°	2889.6	2904.6	2951.3	3050.3	3203.4	3405.2	3606.9	3711.5	3881.5	3851.6	3535.9
20°	2773.8	2805.6	2822.4	2872.8	2979.3	3181.0	3481.7	3565.8	3747.0	3849.7	3442.5
22.5°	2779.4	2779.4	2740.2	2770.1	2867.2	3024.1	3311.8	3405.2	3692.8	3752.6	3358.5
25°	2839.2	2801.8	2803.7	2768.2	2809.3	2895.2	3158.6	3272.5	3582.6	3761.9	3313.6
27.5°	2884.0	2876.5	2865.3	2856.0	2803.7	2816.8	3057.7	3151.1	3539.6	3750.7	3244.5
30°	3046.5	3012.9	3001.7	2981.1	2912.0	2848.5	2977.4	3095.1	3506.0	3776.9	3205.3
32.5°	3182.9	3188.5	3197.8	3138.0	3078.3	2921.4	2999.8	3093.2	3481.7	3836.6	3244.5
35°	3354.7	3379.0	3382.7	3364.1	3300.6	3145.5	3093.2	3173.5	3522.8	3943.1	3248.3
37.5°	3616.2	3590.1	3661.1	3668.5	3623.7	3418.2	3309.9	3341.6	3644.2	4113.1	3390.2
40°	3786.2	3818.0	3950.6	4032.8	3956.2	3769.4	3623.7	3618.1	3819.8	4380.2	3565.8
42.5°	3974.9	4045.8	4191.5	4369.0	4359.6	4185.9	4038.4	4014.1	4131.8	4766.8	3844.1
45°	4232.6	4296.1	4499.7	4766.8	4912.5	4765.0	4542.7	4494.1	4510.9	5293.6	4318.5
47.5°	4660.4	4643.6	4936.8	5200.2	5439.3	5325.3	5230.1	5088.1	5075.0	5913.7	4974.2
50°	5144.2	5140.4	5401.9	5700.8	5977.2	6199.5	6040.7	5885.7	5889.4	6756.1	5745.6
52.5°	5603.7	5676.5	5958.6	6255.5	6730.0	6969.1	7122.2	7060.6	6763.6	7508.9	6571.2
55°	5846.5	5910.0	6190.2	6702.0	7451.0	8065.5	8480.2	8427.9	7854.5	8356.9	7385.6
57.5°	5616.7	5659.7	6038.9	6709.4	7955.3	9326.3	9724.2	9658.8	8982.7	9005.1	8370.0
60°	4654.8	4722.0	5286.1	6072.5	7759.2	10297.6	11437.1	11338.1	10010.0	9825.1	9003.2
62.5°	3224.0	3268.8	3732.0	4710.8	6829.0	10635.7	13054.6	13108.8	11093.4	10463.9	9191.9
65°	2088.3	2084.6	2349.8	3012.9	4839.7	9612.1	14011.0	14347.2	12139.4	10561.0	9134.0
67°	1475.6	1470.0	1595.2	2043.5	3351.0	7919.8	13994.2	14717.1	12707.2	10589.0	8597.9
67.5°	1361.7	1356.1	1475.6	1879.1	3024.1	7365.1	13785.0	14526.5	12907.1	10549.8	8362.5
70°	1057.2	1042.3	1087.1	1294.4	1761.4	4763.1	11797.6	13344.2	12492.4	9571.0	6677.7
72.5°	764.0	780.8	851.8	1062.8	1382.2	2562.7	8992.0	10790.8	10434.0	7213.8	4243.8
75°	532.3	547.3	661.2	866.7	1268.3	1554.1	6080.0	7826.4	7267.9	3982.3	1808.1
77.5°	278.3	297.0	422.1	693.0	1152.5	1202.9	3633.0	4963.0	3851.6	1417.7	498.7
80°	128.9	138.2	211.1	491.3	963.8	1057.2	2118.2	2760.7	1541.0	317.5	171.8
82.5°	56.0	61.6	97.1	282.1	683.6	924.6	1311.3	1447.6	558.5	102.7	106.5
85°	11.2	13.1	37.4	149.4	330.6	560.4	920.9	859.2	280.2	50.4	84.1
87.5°	0.0	0.0	9.3	43.0	89.7	166.2	390.4	390.4	85.9	26.2	31.8
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°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	3987.9	3920.7	3773.1	3636.8	3539.6	3429.4	3283.7	3218.4	3194.1	3160.5	3110.0
5°	3883.3	3801.1	3549.0	3294.9	3016.6	2805.6	2581.4	2450.7	2351.7	2290.0	2269.5
7.5°	3735.8	3567.7	3227.7	2820.5	2460.0	2146.2	1806.2	1576.5	1428.9	1369.2	1313.1
10°	3618.1	3399.5	2882.1	2375.9	1895.9	1436.4	1053.5	851.8	698.6	640.7	633.2
12.5°	3464.9	3203.4	2559.0	1922.1	1318.7	855.5	582.8	506.2	463.2	455.8	450.2
15°	3337.9	3026.0	2252.7	1488.7	853.6	534.2	453.9	435.2	424.0	420.3	422.1
17.5°	3252.0	2835.4	1938.9	1083.4	562.2	437.1	418.4	407.2	401.6	399.7	394.1
20°	3082.0	2674.8	1628.8	758.4	439.0	403.5	388.5	379.2	373.6	371.7	369.8
22.5°	2984.9	2471.2	1318.7	528.6	390.4	366.1	354.9	347.4	338.1	332.5	330.6
25°	2887.7	2321.8	1042.3	410.9	354.9	338.1	321.3	311.9	297.0	289.5	287.7
27.5°	2773.8	2174.2	803.2	356.8	319.4	302.6	285.8	270.8	252.2	244.7	241.0
30°	2708.4	2030.4	605.2	319.4	293.3	270.8	250.3	231.6	211.1	198.0	194.3
32.5°	2674.8	1899.6	453.9	291.4	265.2	241.0	214.8	192.4	173.7	162.5	160.6
35°	2633.7	1772.6	356.8	265.2	239.1	212.9	186.8	164.4	145.7	136.4	132.6
37.5°	2676.7	1697.9	297.0	244.7	218.5	188.7	160.6	138.2	123.3	113.9	112.1
40°	2794.4	1636.3	257.8	226.0	198.0	166.2	140.1	117.7	104.6	97.1	93.4
42.5°	2975.5	1636.3	233.5	207.3	179.3	145.7	119.5	102.7	89.7	82.2	80.3
45°	3304.3	1686.7	212.9	188.7	156.9	125.1	102.7	85.9	72.8	65.4	63.5
47.5°	3765.7	1802.5	196.1	171.8	140.1	110.2	89.7	72.8	59.8	52.3	50.4
50°	4385.8	2065.9	179.3	151.3	125.1	95.3	74.7	57.9	46.7	39.2	37.4
52.5°	5159.1	2439.5	162.5	140.1	106.5	80.3	59.8	46.7	35.5	29.9	28.0
55°	5977.2	2897.1	142.0	125.1	91.5	67.2	48.6	35.5	26.2	22.4	20.5
57.5°	6801.0	3250.1	125.1	108.3	74.7	54.2	39.2	28.0	18.7	14.9	13.1
60°	7238.1	3283.7	108.3	89.7	59.8	43.0	29.9	20.5	13.1	9.3	7.5
62.5°	7305.3	2984.9	93.4	72.8	48.6	33.6	20.5	14.9	7.5	3.7	3.7
65°	6959.7	2488.0	80.3	57.9	37.4	24.3	14.9	9.3	3.7	1.9	0.0
67°	6399.4	2084.6	69.1	48.6	29.9	18.7	11.2	5.6	1.9	0.0	0.0
67.5°	6182.7	1972.5	65.4	44.8	28.0	16.8	9.3	5.6	1.9	0.0	0.0
70°	4798.6	1408.4	48.6	31.8	20.5	13.1	7.5	3.7	0.0	0.0	0.0
72.5°	2940.0	823.7	37.4	22.4	14.9	9.3	5.6	1.9	0.0	0.0	0.0
75°	1232.8	283.9	31.8	16.8	11.2	5.6	3.7	1.9	0.0	0.0	0.0
77.5°	321.3	106.5	22.4	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	130.8	48.6	14.9	7.5	7.5	5.6	3.7	1.9	0.0	0.0	0.0
82.5°	85.9	22.4	9.3	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	65.4	13.1	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	7.5	5.6	3.7	3.7	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)