

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: P481688

Luminaire Tested: **IFLD-M-SA4C-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

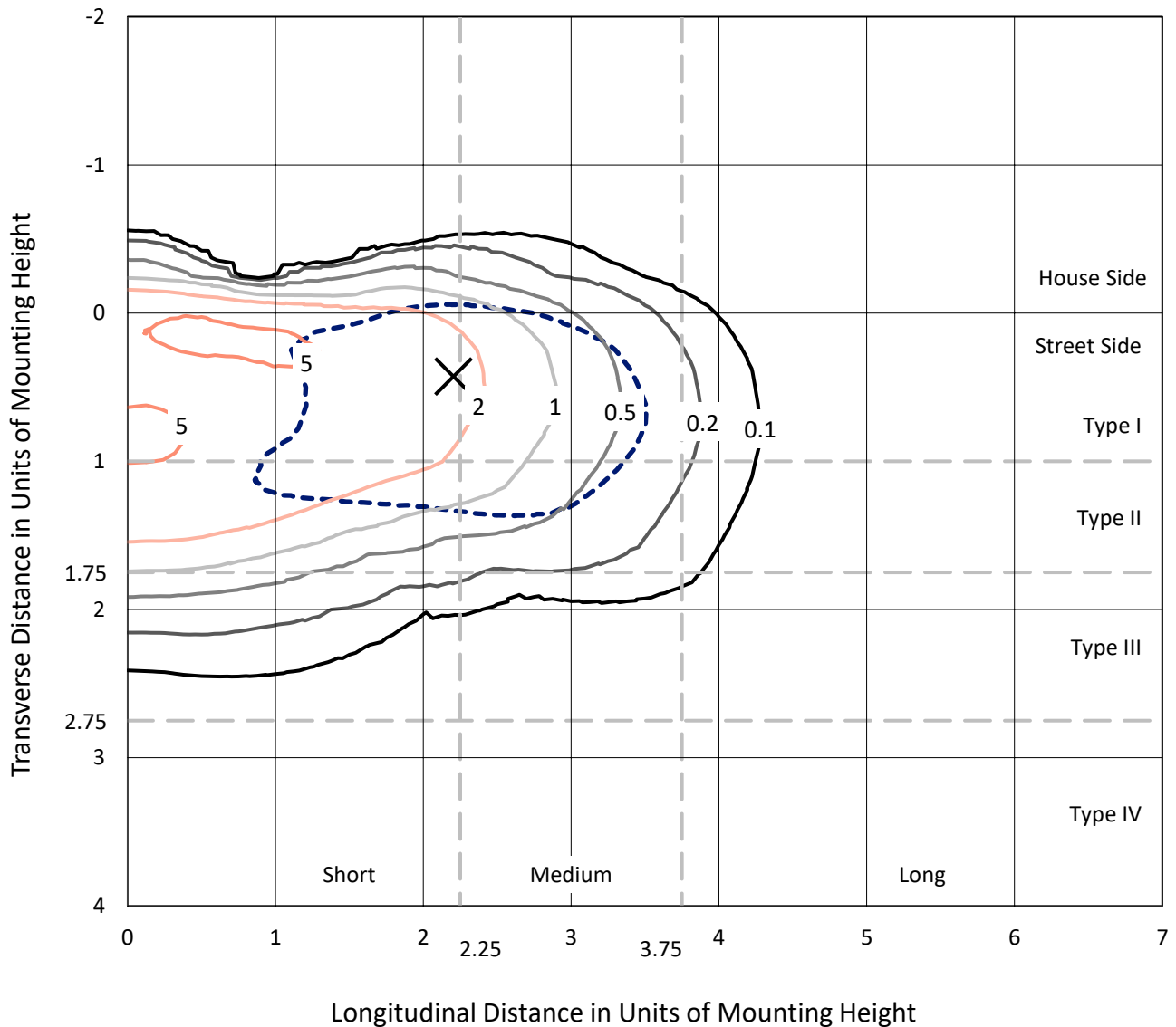
Lumens per Lamp: N/A
Luminaire Lumens: 20474.7 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

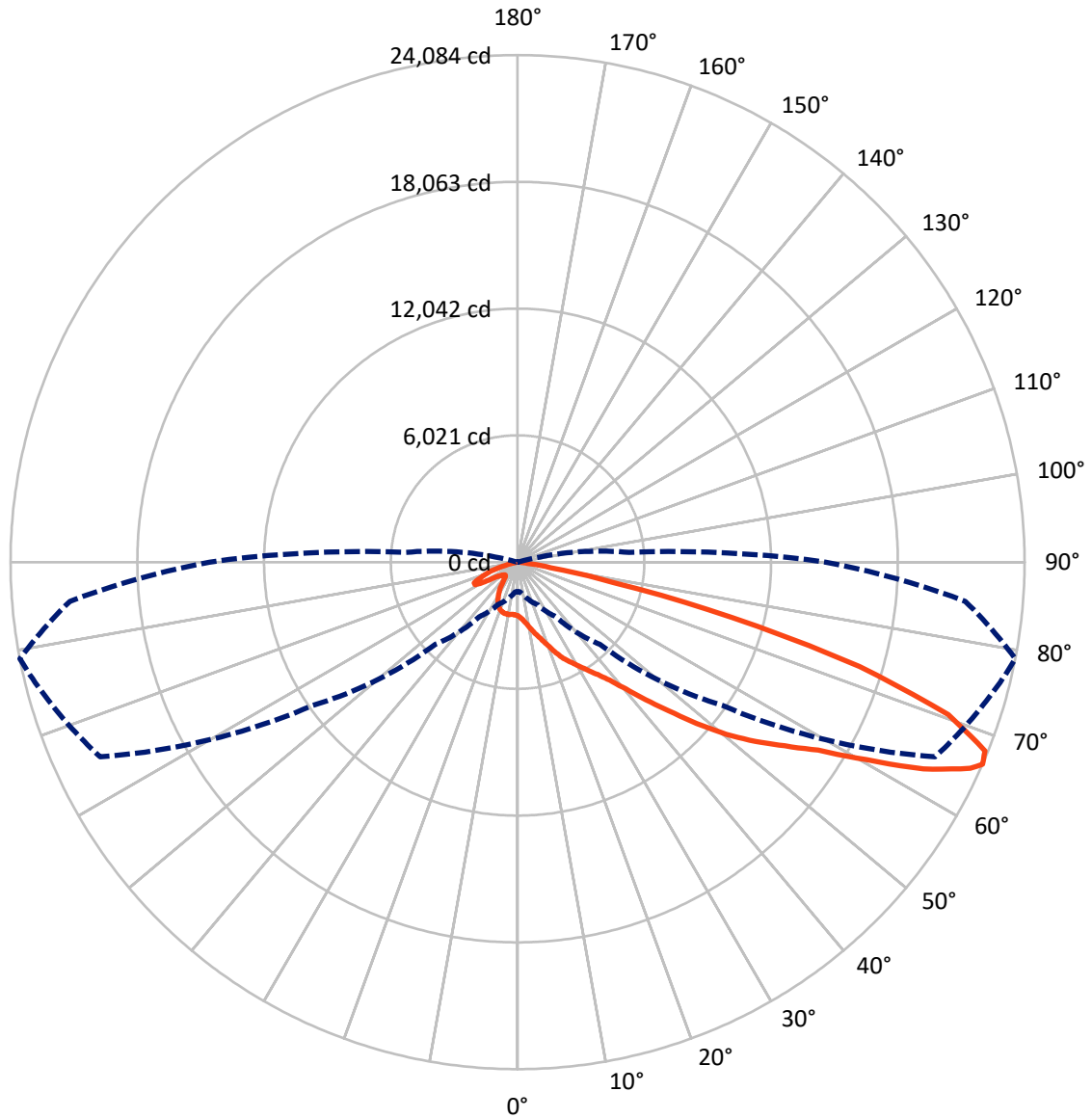
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1537.4	0.0	1537.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18937.4	0.0	18937.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	20474.7	0.0	20474.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.2
10°-20°	663.0	3.2
20°-30°	1101.4	5.4
30°-40°	1891.8	9.2
40°-50°	3427.3	16.7
50°-60°	5417.5	26.5
60°-70°	5512.7	26.9
70°-80°	2102.3	10.3
80°-90°	117.9	0.6
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°	20474.7	100.0
0°-180°	20474.7	100.0

Coefficient of Utilization



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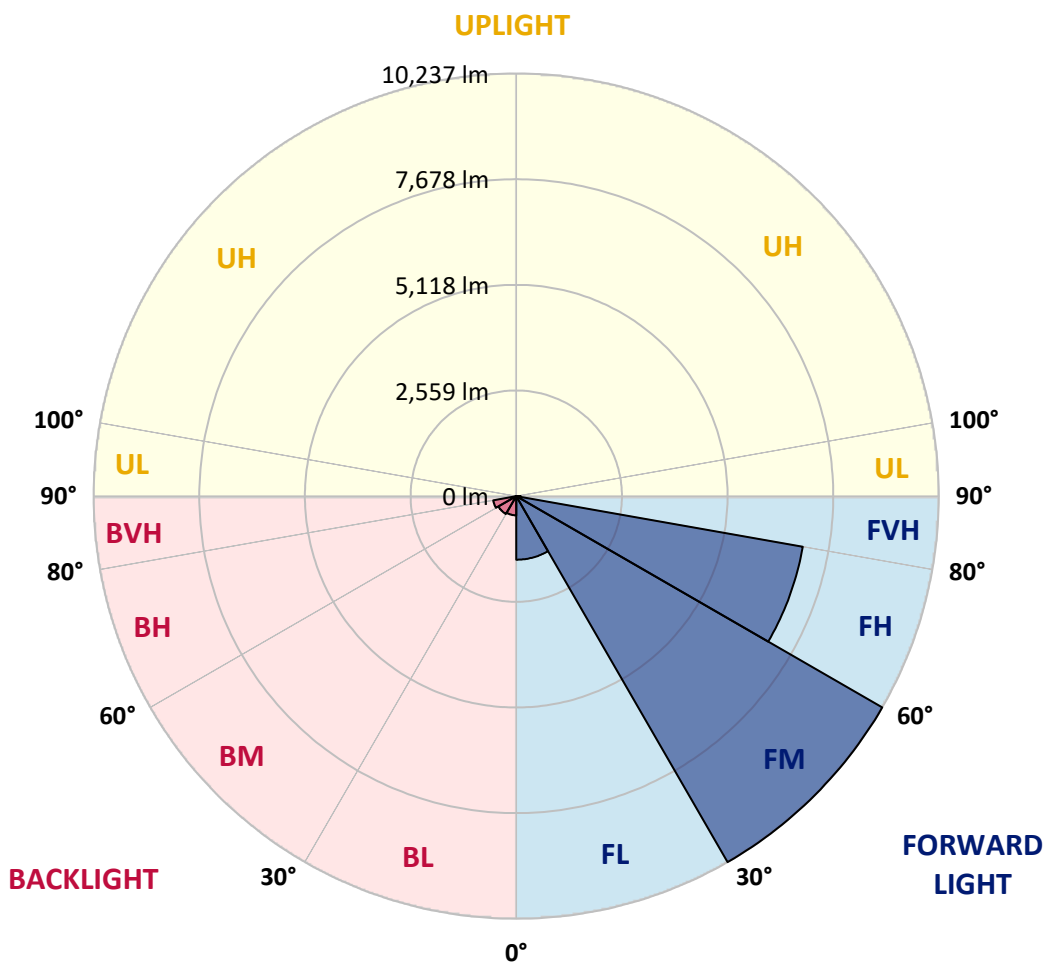
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.4	7.5			
FM (30°-60°)	10236.9	50.0			
FH (60°-80°)	7048.2	34.4			G3/7500
FVH (80°-90°)	111.8	0.5			G2/225
BL (0°-30°)	464.9	2.3	B1/500		
BM (30°-60°)	499.7	2.4	B1/1000		
BH (60°-80°)	566.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3
2.5°	2885.1	2881.9	2869.3	2847.2	2818.8	2809.3	2768.3	2711.4	2679.9	2645.2	2629.4
5°	3083.9	3068.1	3106.0	3090.2	3096.5	3020.8	2970.3	2929.2	2809.3	2761.9	2686.2
7.5°	3128.1	3143.9	3140.7	3166.0	3191.2	3219.6	3184.9	3124.9	3005.0	2935.6	2853.5
10°	3128.1	3121.8	3147.0	3181.8	3254.4	3317.5	3412.2	3333.3	3241.7	3159.7	3011.3
12.5°	3071.3	3061.8	3087.1	3159.7	3289.1	3418.5	3522.7	3598.4	3469.0	3402.7	3210.2
15°	2897.7	2888.2	2992.4	3121.8	3292.2	3503.7	3721.5	3844.6	3756.2	3652.1	3437.4
17.5°	2683.0	2695.7	2806.1	3020.8	3292.2	3544.8	3822.5	4090.8	4078.2	3945.6	3721.5
20°	2610.4	2619.9	2730.4	2885.1	3194.4	3573.2	3980.4	4359.1	4434.9	4277.1	3983.5
22.5°	2749.3	2739.9	2749.3	2844.0	3128.1	3547.9	4084.5	4665.3	4801.1	4677.9	4327.6
25°	3222.8	3216.5	3137.6	2992.4	3090.2	3491.1	4138.2	4867.3	5179.8	5066.2	4605.3
27.5°	3917.2	3892.0	3768.9	3465.8	3267.0	3525.8	4226.6	5063.0	5511.3	5381.8	4854.7
30°	4662.2	4602.2	4441.2	4062.4	3724.7	3655.2	4277.1	5208.2	5880.6	5716.4	5072.5
32.5°	5176.7	5255.6	5205.1	4820.0	4302.3	3955.1	4359.1	5391.3	6221.5	6114.2	5445.0
35°	5972.1	6063.7	5852.2	5511.3	4990.4	4431.7	4532.7	5539.7	6745.5	6565.5	5792.2
37.5°	6975.9	7045.3	6893.8	6246.7	5697.5	5018.9	4889.4	5849.0	7196.8	7111.6	6237.3
40°	7480.9	7815.5	7600.9	7016.9	6426.7	5839.5	5479.7	6212.0	7982.8	7913.4	6852.8
42.5°	8178.5	8345.8	8235.3	7802.9	7187.4	6717.1	6208.9	6919.1	8936.1	8936.1	7686.1
45°	8917.1	8923.5	8917.1	8563.6	8017.5	7774.5	7193.7	7806.0	9961.9	10075.6	8683.6
47.5°	9523.2	9712.6	9696.8	9485.3	9062.3	8970.8	8178.5	8816.1	11249.8	11448.7	9655.8
50°	9835.7	10047.2	10110.3	10220.8	10201.8	10394.4	9254.9	9987.2	12360.9	12850.2	10905.7
52.5°	9750.5	9766.2	10154.5	10590.1	11284.5	11824.3	10552.2	11316.1	13661.4	14144.3	11871.6
55°	9052.9	8992.9	9791.5	10290.2	11726.4	12698.6	12348.3	12973.3	14674.6	15410.1	12869.1
57.5°	7522.0	7537.7	8276.4	9289.6	11398.2	13045.9	14267.4	15138.6	16095.0	16836.8	14270.6
60°	5192.5	5173.5	6000.5	7171.6	9469.5	12398.8	15372.2	17944.8	17995.3	19046.4	16786.3
62.5°	2919.8	2926.1	3554.2	4554.8	6625.5	10132.4	15318.5	20924.5	20709.9	21631.6	19646.1
65°	1654.0	1695.0	2127.5	2698.8	3967.7	6802.3	13175.3	22111.4	22802.6	23623.3	21382.2
66°	1398.3	1426.7	1796.1	2228.5	3166.0	5517.6	11859.0	21880.9	23459.2	24084.2	21347.5
67.5°	1082.7	1120.6	1429.9	1767.6	2323.2	3819.4	9545.3	20735.1	23579.1	23945.3	20744.6
70°	741.8	767.0	1003.8	1341.5	1587.7	1953.9	5707.0	17143.0	21394.8	21704.2	18030.0
72.5°	520.8	533.5	703.9	1016.4	1221.6	1117.4	2831.4	12196.8	16372.8	16975.7	14024.4
75°	375.6	388.3	482.9	729.2	953.3	732.3	1297.3	7790.3	10040.9	10514.3	8446.8
77.5°	271.5	287.2	328.3	470.3	691.3	514.5	637.6	4068.7	4734.8	4652.7	3633.1
80°	164.1	179.9	243.1	303.0	505.0	363.0	350.4	1698.2	1679.3	1594.0	1142.7
82.5°	75.8	88.4	129.4	205.2	353.5	252.5	167.3	606.0	530.3	486.1	322.0
85°	22.1	28.4	75.8	154.7	179.9	123.1	101.0	208.3	217.8	186.2	107.3
87.5°	0.0	3.2	34.7	37.9	53.7	41.0	37.9	53.7	101.0	82.1	34.7
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°	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3	2547.3
2.5°	2572.6	2550.5	2496.8	2414.7	2342.1	2304.3	2250.6	2203.2	2178.0	2174.8	2171.7
5°	2635.7	2575.7	2446.3	2297.9	2187.5	2067.5	1985.4	1925.5	1868.7	1815.0	1846.6
7.5°	2720.9	2626.2	2414.7	2222.2	1982.3	1827.6	1682.4	1597.2	1546.7	1499.3	1493.0
10°	2853.5	2733.5	2392.6	2045.4	1770.8	1543.5	1395.2	1272.1	1202.6	1120.6	1152.1
12.5°	3033.4	2818.8	2310.6	1884.4	1530.9	1291.0	1079.5	880.7	770.2	685.0	688.1
15°	3213.3	2932.4	2234.8	1688.7	1313.1	997.5	688.1	552.4	520.8	501.9	508.2
17.5°	3390.1	3023.9	2118.0	1489.9	1063.7	634.5	501.9	473.5	457.7	438.8	438.8
20°	3604.7	3083.9	1972.8	1306.8	732.3	470.3	429.3	410.3	385.1	359.8	363.0
22.5°	3813.1	3134.4	1805.5	1073.2	492.4	407.2	359.8	334.6	312.5	287.2	287.2
25°	4021.4	3150.2	1587.7	770.2	397.7	325.1	280.9	246.2	224.1	202.0	205.2
27.5°	4163.4	3052.3	1382.6	492.4	318.8	246.2	195.7	167.3	148.4	126.3	126.3
30°	4245.5	2872.4	1161.6	347.2	239.9	167.3	116.8	88.4	69.4	53.7	50.5
32.5°	4327.6	2727.2	912.2	265.1	157.8	88.4	44.2	15.8	0.0	0.0	0.0
35°	4491.7	2563.1	612.4	148.4	53.7	3.2	0.0	0.0	0.0	0.0	0.0
37.5°	4595.9	2335.8	280.9	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4857.9	2222.2	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5284.0	2143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5751.2	2111.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6373.0	2196.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7029.5	2427.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7749.2	2645.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8377.4	2907.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9532.7	3525.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11606.5	4741.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13942.3	5643.8	34.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14797.7	5621.7	60.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14646.2	5312.4	60.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13860.2	4719.0	53.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11903.2	3898.3	53.7	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9075.0	3036.6	50.5	12.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5476.5	1616.1	41.0	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2181.1	568.2	31.6	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	590.3	170.5	18.9	12.6	9.5	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	154.7	63.1	15.8	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0
85°	60.0	25.3	12.6	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0
87.5°	18.9	9.5	9.5	6.3	6.3	3.2	3.2	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)