

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: P481571

Luminaire Tested: **IFLD-M-SA4C-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481571
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

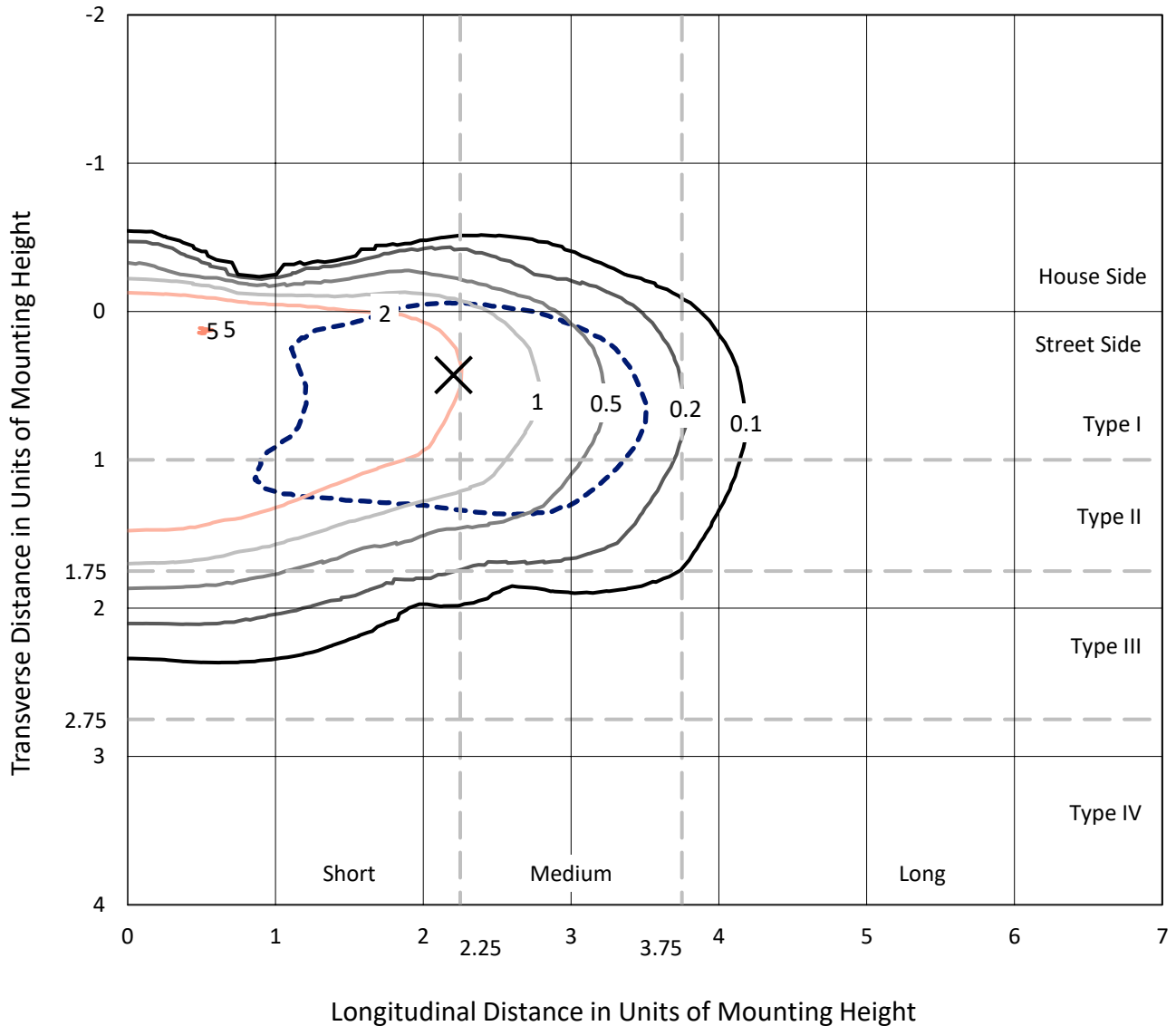
Lumens per Lamp: N/A
Luminaire Lumens: 17123 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

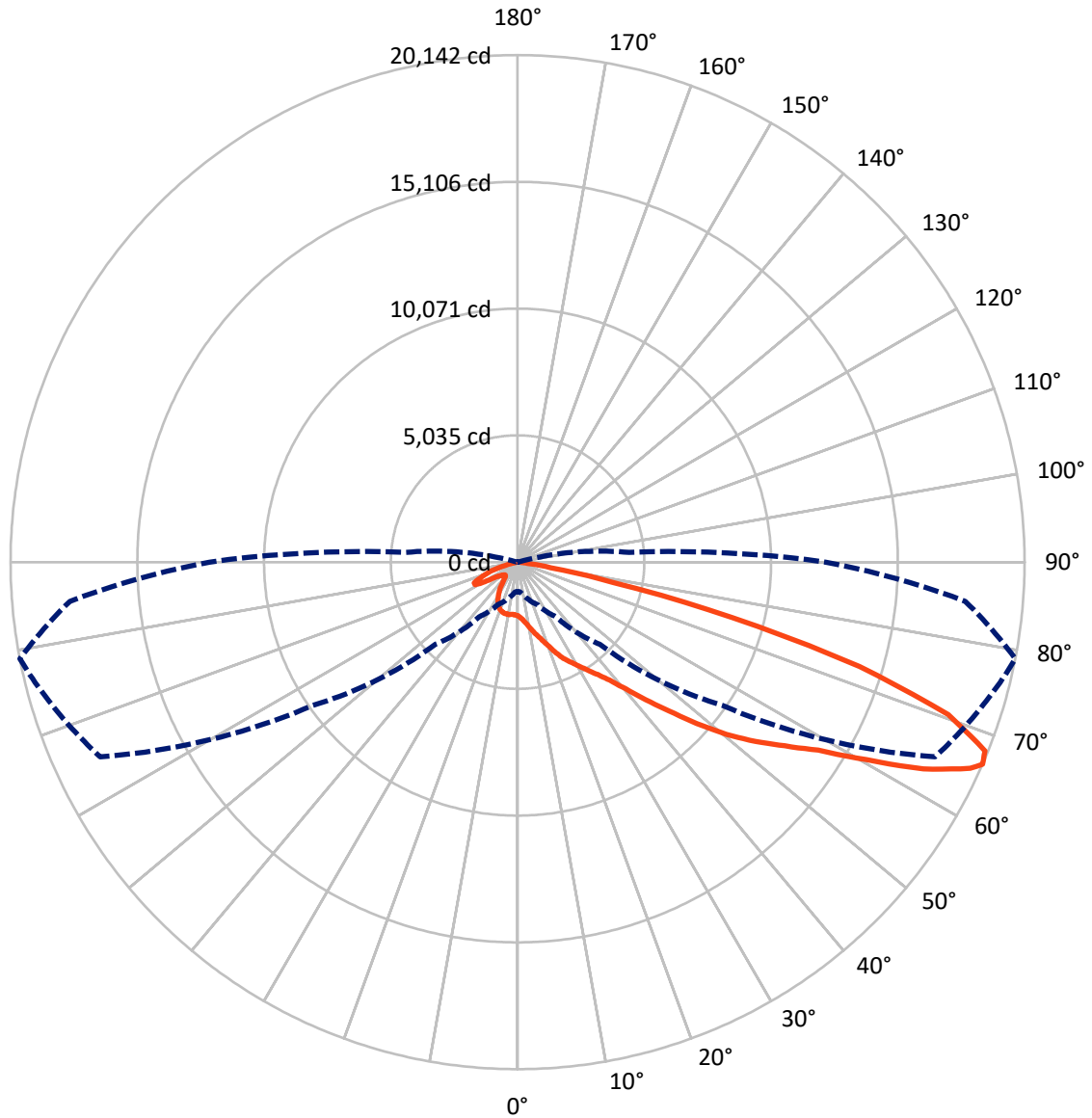
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1285.7	0.0	1285.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15837.3	0.0	15837.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	17123.0	0.0	17123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.2
10°-20°	554.5	3.2
20°-30°	921.1	5.4
30°-40°	1582.1	9.2
40°-50°	2866.2	16.7
50°-60°	4530.6	26.5
60°-70°	4610.3	26.9
70°-80°	1758.1	10.3
80°-90°	98.6	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°	17123.0	100.0
0°-180°	17123.0	100.0

Coefficient of Utilization



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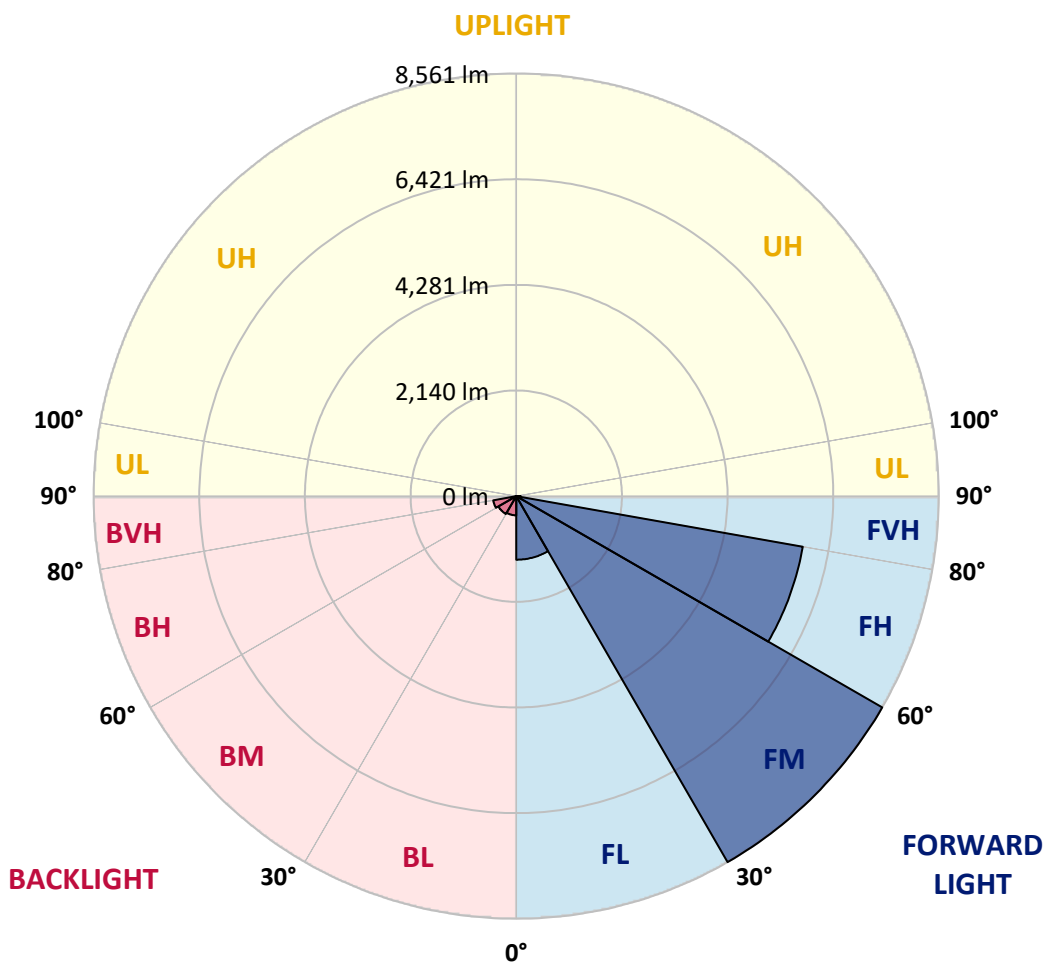
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.2	7.5			
FM (30°-60°)	8561.1	50.0			
FH (60°-80°)	5894.4	34.4			G3/7500
FVH (80°-90°)	93.5	0.5			G1/100
BL (0°-30°)	388.8	2.3	B1/500		
BM (30°-60°)	417.9	2.4	B1/1000		
BH (60°-80°)	474.0	2.8	B1/500		G1/500
BVH (80°-90°)	5.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2412.8	2410.1	2399.6	2381.1	2357.3	2349.4	2315.1	2267.6	2241.2	2212.1	2198.9
5°	2579.1	2565.9	2597.6	2584.4	2589.6	2526.3	2484.0	2449.7	2349.4	2309.8	2246.5
7.5°	2616.0	2629.2	2626.6	2647.7	2668.8	2692.6	2663.5	2613.4	2513.1	2455.0	2386.4
10°	2616.0	2610.8	2631.9	2660.9	2721.6	2774.4	2853.6	2787.6	2711.1	2642.4	2518.4
12.5°	2568.5	2560.6	2581.7	2642.4	2750.7	2858.9	2946.0	3009.4	2901.1	2845.7	2684.7
15°	2423.3	2415.4	2502.5	2610.8	2753.3	2930.2	3112.3	3215.3	3141.3	3054.2	2874.7
17.5°	2243.8	2254.4	2346.8	2526.3	2753.3	2964.5	3196.8	3421.2	3410.6	3299.7	3112.3
20°	2183.1	2191.0	2283.4	2412.8	2671.5	2988.2	3328.8	3645.5	3708.9	3576.9	3331.4
22.5°	2299.3	2291.3	2299.3	2378.5	2616.0	2967.1	3415.9	3901.6	4015.1	3912.2	3619.2
25°	2695.2	2689.9	2624.0	2502.5	2584.4	2919.6	3460.8	4070.6	4331.9	4236.9	3851.5
27.5°	3276.0	3254.9	3151.9	2898.5	2732.2	2948.6	3534.7	4234.2	4609.1	4500.8	4060.0
30°	3899.0	3848.8	3714.2	3397.4	3115.0	3056.9	3576.9	4355.7	4917.9	4780.7	4242.1
32.5°	4329.3	4395.2	4353.0	4031.0	3598.0	3307.7	3645.5	4508.8	5203.0	5113.3	4553.6
35°	4994.5	5071.0	4894.2	4609.1	4173.5	3706.3	3790.7	4632.8	5641.2	5490.8	4844.0
37.5°	5833.9	5892.0	5765.3	5224.1	4764.8	4197.3	4089.0	4891.5	6018.7	5947.4	5216.2
40°	6256.3	6536.1	6356.6	5868.3	5374.6	4883.6	4582.7	5195.1	6676.0	6618.0	5731.0
42.5°	6839.7	6979.6	6887.2	6525.6	6010.8	5617.5	5192.5	5786.4	7473.2	7473.2	6427.9
45°	7457.4	7462.7	7457.4	7161.7	6705.1	6501.8	6016.1	6528.2	8331.2	8426.2	7262.1
47.5°	7964.2	8122.6	8109.4	7932.6	7578.8	7502.3	6839.7	7372.9	9408.2	9574.5	8075.1
50°	8225.6	8402.4	8455.2	8547.6	8531.8	8692.8	7739.9	8352.3	10337.4	10746.6	9120.5
52.5°	8154.3	8167.5	8492.2	8856.5	9437.2	9888.7	8824.8	9463.6	11425.0	11828.9	9928.2
55°	7570.9	7520.8	8188.6	8605.7	9806.8	10619.9	10326.9	10849.5	12272.4	12887.5	10762.4
57.5°	6290.6	6303.8	6921.5	7768.9	9532.3	10910.2	11931.8	12660.4	13460.3	14080.6	11934.5
60°	4342.5	4326.6	5018.2	5997.6	7919.4	10369.1	12855.8	15007.2	15049.4	15928.5	14038.4
62.5°	2441.8	2447.1	2972.4	3809.2	5540.9	8473.7	12810.9	17499.2	17319.7	18090.5	16430.0
65°	1383.2	1417.6	1779.2	2257.0	3318.2	5688.7	11018.5	18491.7	19069.8	19756.2	17881.9
66°	1169.4	1193.2	1502.0	1863.7	2647.7	4614.4	9917.7	18299.0	19618.9	20141.6	17852.9
67.5°	905.4	937.1	1195.8	1478.3	1942.9	3194.1	7982.7	17340.8	19719.2	20025.4	17348.7
70°	620.4	641.5	839.5	1121.9	1327.8	1634.0	4772.7	14336.7	17892.5	18151.2	15078.5
72.5°	435.6	446.1	588.7	850.0	1021.6	934.5	2367.9	10200.1	13692.6	14196.8	11728.6
75°	314.1	324.7	403.9	609.8	797.2	612.4	1085.0	6515.0	8397.2	8793.1	7064.1
77.5°	227.0	240.2	274.5	393.3	578.1	430.3	533.2	3402.7	3959.7	3891.0	3038.4
80°	137.3	150.5	203.3	253.4	422.4	303.6	293.0	1420.2	1404.4	1333.1	955.6
82.5°	63.4	73.9	108.2	171.6	295.7	211.2	139.9	506.8	443.5	406.5	269.3
85°	18.5	23.8	63.4	129.3	150.5	103.0	84.5	174.2	182.1	155.7	89.8
87.5°	0.0	2.6	29.0	31.7	44.9	34.3	31.7	44.9	84.5	68.6	29.0
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°	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2151.4	2132.9	2088.1	2019.4	1958.7	1927.0	1882.2	1842.6	1821.5	1818.8	1816.2
5°	2204.2	2154.1	2045.8	1921.8	1829.4	1729.1	1660.4	1610.3	1562.8	1517.9	1544.3
7.5°	2275.5	2196.3	2019.4	1858.4	1657.8	1528.4	1407.0	1335.7	1293.5	1253.9	1248.6
10°	2386.4	2286.1	2001.0	1710.6	1480.9	1290.9	1166.8	1063.8	1005.8	937.1	963.5
12.5°	2536.8	2357.3	1932.3	1576.0	1280.3	1079.7	902.8	736.5	644.1	572.8	575.5
15°	2687.3	2452.4	1869.0	1412.3	1098.2	834.2	575.5	462.0	435.6	419.7	425.0
17.5°	2835.1	2528.9	1771.3	1246.0	889.6	530.6	419.7	396.0	382.8	366.9	366.9
20°	3014.6	2579.1	1649.9	1092.9	612.4	393.3	359.0	343.2	322.1	300.9	303.6
22.5°	3188.9	2621.3	1510.0	897.5	411.8	340.5	300.9	279.8	261.3	240.2	240.2
25°	3363.1	2634.5	1327.8	644.1	332.6	271.9	234.9	205.9	187.4	168.9	171.6
27.5°	3481.9	2552.7	1156.2	411.8	266.6	205.9	163.7	139.9	124.1	105.6	105.6
30°	3550.5	2402.2	971.4	290.4	200.6	139.9	97.7	73.9	58.1	44.9	42.2
32.5°	3619.2	2280.8	762.9	221.7	132.0	73.9	37.0	13.2	0.0	0.0	0.0
35°	3756.4	2143.5	512.1	124.1	44.9	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3843.5	1953.4	234.9	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4062.6	1858.4	58.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4419.0	1792.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4809.7	1766.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5329.7	1837.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5878.8	2030.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6480.7	2212.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7006.0	2431.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7972.2	2948.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9706.5	3965.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11659.9	4719.9	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12375.3	4701.5	50.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12248.6	4442.8	50.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11591.3	3946.5	44.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9954.6	3260.1	44.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7589.4	2539.5	42.2	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4580.0	1351.6	34.3	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1824.1	475.2	26.4	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	493.6	142.5	15.8	10.6	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	129.3	52.8	13.2	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	50.2	21.1	10.6	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0
87.5°	15.8	7.9	7.9	5.3	5.3	2.6	2.6	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)