

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: P482204

Luminaire Tested: **IFLD-L-SA8B-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

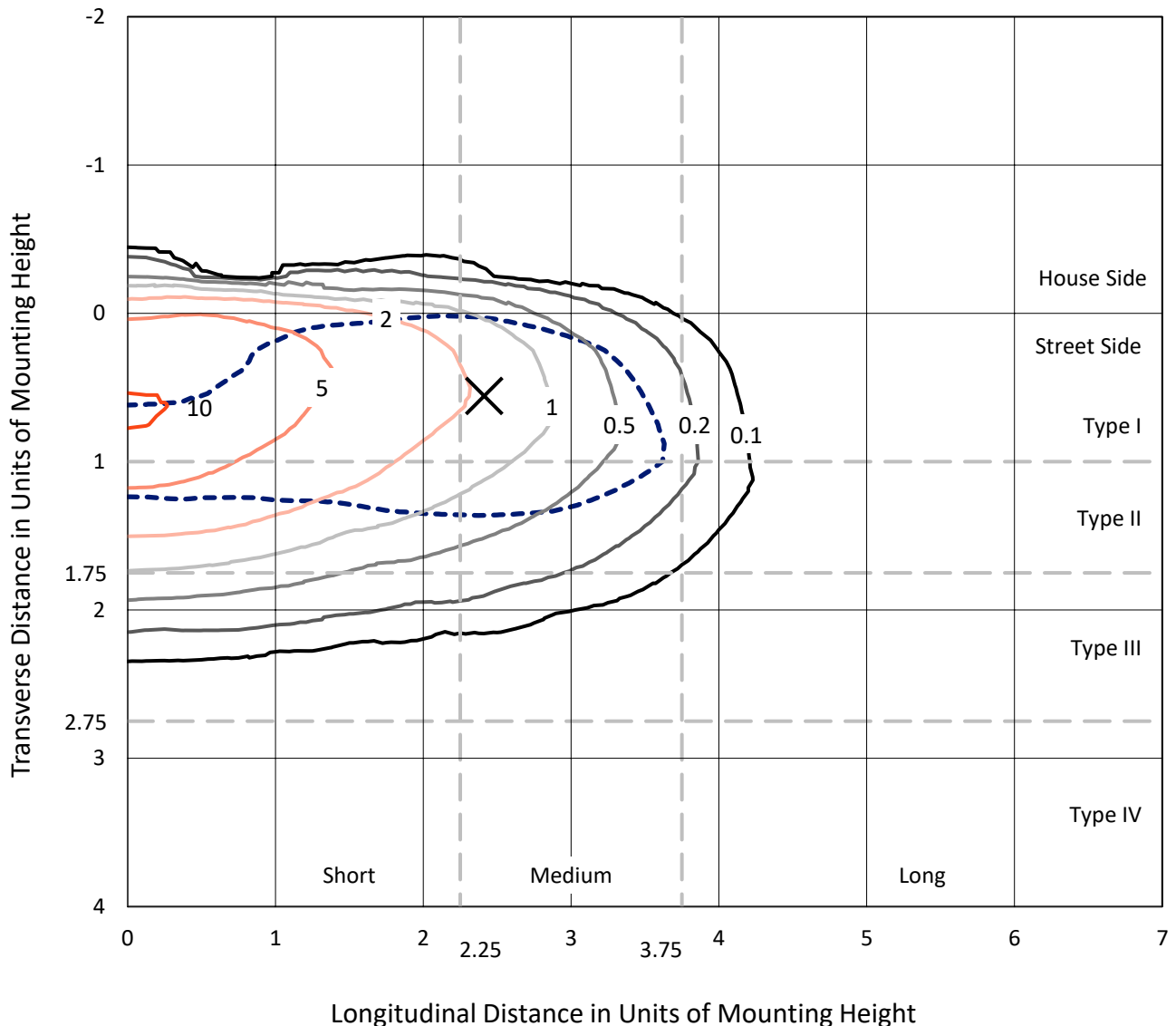
Lumens per Lamp: N/A
Luminaire Lumens: 23521.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 320
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

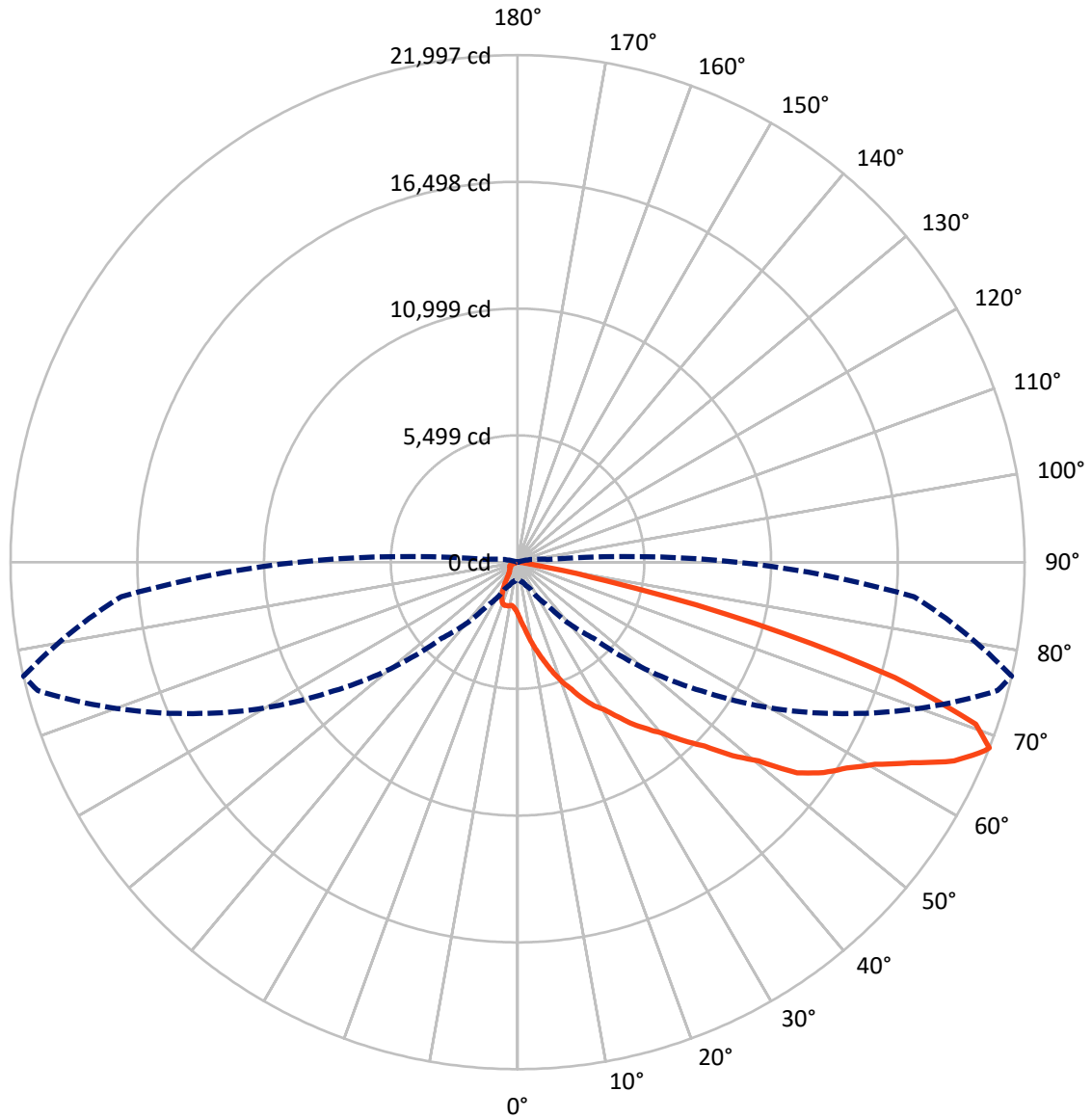
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.7	0.0	1066.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	22454.8	0.0	22454.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	23521.4	0.0	23521.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.1
10°-20°	970.4	4.1
20°-30°	1880.7	8.0
30°-40°	3278.6	13.9
40°-50°	4801.9	20.4
50°-60°	5641.4	24.0
60°-70°	4763.7	20.3
70°-80°	1846.5	7.9
80°-90°	75.1	0.3
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°	23521.4	100.0
0°-180°	23521.4	100.0

Coefficient of Utilization



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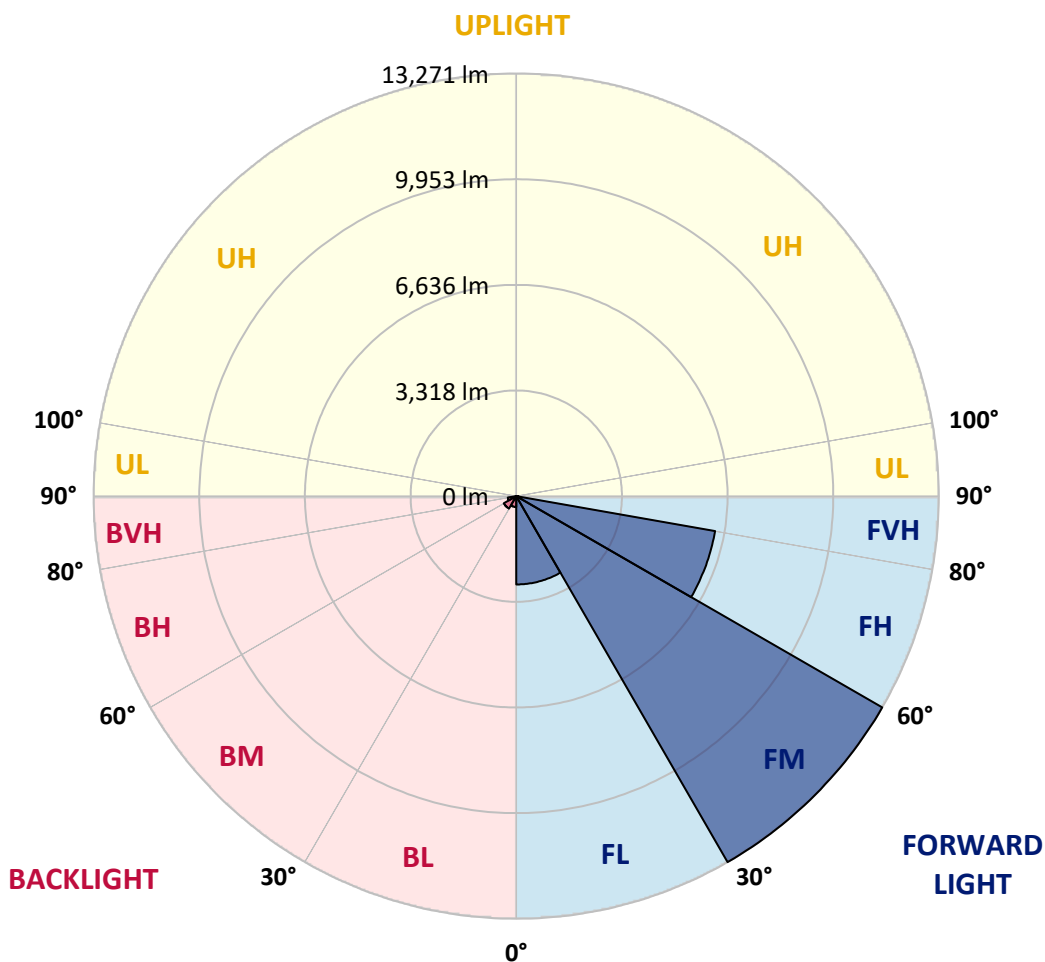
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.4	11.8			
FM (30°-60°)	13271.2	56.4			
FH (60°-80°)	6340.9	27.0			G3/7500
FVH (80°-90°)	69.3	0.3			G1/100
BL (0°-30°)	340.8	1.4	B1/500		
BM (30°-60°)	450.7	1.9	B1/1000		
BH (60°-80°)	269.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2
2.5°	3422.1	3357.3	3289.2	3269.8	3143.4	3000.8	2867.9	2738.3	2521.2	2524.4	2375.4
5°	4410.5	4329.4	4274.3	4261.4	4063.7	3817.4	3616.5	3250.3	2890.6	2809.6	2537.4
7.5°	5223.8	5197.9	5116.9	5048.8	4903.0	4601.6	4365.1	3840.1	3292.4	3201.7	2735.1
10°	5716.4	5755.3	5790.9	5703.4	5590.0	5372.9	5048.8	4481.7	3749.4	3635.9	2991.1
12.5°	6241.4	6176.6	6199.3	6270.6	6121.5	6072.9	5671.0	5142.8	4284.1	4066.9	3315.1
15°	6377.5	6403.4	6458.5	6665.9	6766.4	6627.0	6280.3	5677.5	4838.2	4536.8	3616.5
17.5°	6468.2	6455.3	6523.3	6834.4	6986.7	7119.6	6902.5	6273.8	5321.1	5052.1	3992.4
20°	6581.6	6510.4	6659.4	6857.1	7210.3	7489.0	7479.3	6873.3	5826.6	5541.4	4365.1
22.5°	7002.9	6947.8	7067.7	7087.2	7333.5	7722.3	7816.3	7362.6	6345.1	5995.1	4766.9
25°	7780.7	7881.1	7738.5	7615.4	7689.9	7945.9	8014.0	7796.9	6866.8	6546.0	5168.7
27.5°	8918.1	8905.2	8623.2	8464.4	8286.2	8253.8	8302.4	8201.9	7278.4	7048.3	5499.3
30°	10139.8	10032.9	9773.6	9391.2	8999.1	8756.1	8688.0	8584.3	7761.2	7427.4	5826.6
32.5°	11112.0	11170.3	10881.9	10382.9	9731.5	9404.2	9076.9	8963.5	8292.7	7997.8	6202.5
35°	12006.4	11928.6	11698.5	11277.3	10694.0	10165.7	9653.7	9410.7	8931.1	8639.4	6617.3
37.5°	12667.5	12764.7	12327.2	11925.4	11345.3	10907.8	10405.6	9874.1	9588.9	9200.1	7122.8
40°	13292.9	13140.6	12845.7	12476.3	11938.4	11604.6	11274.0	10444.4	10288.9	9786.6	7693.2
42.5°	13182.7	13192.5	13030.4	12732.3	12343.4	12152.2	12038.8	11137.9	10924.0	10603.2	8250.6
45°	12732.3	12771.2	12826.3	12680.4	12712.9	12521.7	12826.3	11935.1	11724.5	11384.2	8892.2
47.5°	12236.5	12301.3	12288.3	12554.1	12855.4	12920.3	13681.8	12819.8	12729.1	12541.1	9780.1
50°	11413.4	11439.3	11688.8	12171.7	12583.2	13260.5	14323.4	13785.5	13924.8	13555.4	10836.6
52.5°	10007.0	10100.9	10742.6	11432.8	12262.4	13432.3	14757.7	15221.1	15574.3	15195.2	11850.9
55°	8227.9	8357.5	8989.4	10282.4	11497.6	13173.0	15153.0	15979.4	16695.5	16122.0	12466.6
57.5°	6620.5	6633.5	7200.6	8535.7	10412.0	12664.2	15353.9	16348.8	17311.3	16851.1	13218.4
60°	5045.6	4993.8	5502.5	6659.4	8584.3	11413.4	14851.6	16536.8	18079.3	17813.6	14122.5
62.5°	3247.1	3166.1	3720.2	4847.9	6704.8	9329.7	13847.1	16540.0	19278.3	19177.8	15635.9
65°	1607.3	1552.2	2028.6	2971.6	4640.5	7135.8	12414.7	16478.4	20743.1	20807.9	17110.3
67.5°	849.0	868.5	1020.8	1506.9	2676.7	5042.4	10256.5	15755.8	21491.6	21854.6	17466.8
68°	781.0	787.5	907.4	1254.1	2323.5	4676.2	9744.5	15545.1	21550.0	21997.2	17269.1
70°	635.2	644.9	687.0	787.5	1257.4	3042.9	7518.2	13756.3	20671.8	21080.1	15632.6
72.5°	505.5	534.7	560.6	602.8	738.9	1597.6	4676.2	10719.9	17077.9	17123.3	12168.4
75°	385.6	408.3	460.2	495.8	576.8	878.2	2226.3	6536.3	11206.0	10655.1	7168.2
77.5°	298.1	317.6	340.3	388.9	482.8	593.0	680.5	2773.9	4760.4	3917.9	2025.4
80°	178.2	191.2	265.7	304.6	421.3	401.8	269.0	771.3	965.7	761.5	369.4
82.5°	103.7	113.4	152.3	233.3	294.9	217.1	158.8	239.8	236.6	207.4	123.1
85°	3.2	6.5	84.3	139.3	103.7	58.3	97.2	100.5	84.3	77.8	55.1
87.5°	0.0	3.2	22.7	19.4	22.7	13.0	19.4	25.9	32.4	29.2	22.7
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°	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2	2252.2
2.5°	2274.9	2203.6	2044.8	1924.9	1795.3	1717.5	1639.7	1591.1	1565.2	1549.0	1562.0
5°	2333.2	2184.2	1928.2	1701.3	1552.2	1451.8	1351.3	1299.5	1250.9	1224.9	1241.1
7.5°	2462.9	2239.3	1814.7	1568.4	1393.5	1237.9	1111.5	1011.1	952.7	900.9	910.6
10°	2621.6	2271.7	1818.0	1490.7	1237.9	991.6	813.4	687.0	615.7	570.3	567.1
12.5°	2783.7	2398.0	1830.9	1412.9	1046.7	745.3	534.7	440.7	398.6	375.9	375.9
15°	3030.0	2511.5	1798.5	1270.3	793.9	486.1	366.2	333.8	317.6	298.1	301.4
17.5°	3243.8	2692.9	1782.3	1056.4	544.4	350.0	304.6	269.0	252.8	233.3	233.3
20°	3532.2	2806.4	1694.8	816.6	375.9	291.7	246.3	213.9	188.0	171.8	175.0
22.5°	3794.7	2893.9	1539.3	557.4	288.4	230.1	181.5	149.1	126.4	106.9	110.2
25°	4079.9	2981.3	1312.4	343.5	204.2	142.6	97.2	71.3	48.6	35.6	35.6
27.5°	4284.1	3007.3	1017.5	204.2	123.1	64.8	22.7	3.2	0.0	0.0	0.0
30°	4491.5	3017.0	703.2	110.2	48.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4728.0	3013.8	440.7	58.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	4909.5	2958.7	210.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5185.0	2877.6	64.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5499.3	2731.8	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5781.2	2582.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6102.0	2398.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6665.9	2320.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7401.5	2258.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7855.2	2077.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8091.8	1889.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8441.8	1798.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8960.2	1805.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9770.4	1895.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10217.6	1805.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9838.4	1445.3	61.6	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	9511.1	1328.6	61.6	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	7861.7	865.2	58.3	16.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5726.1	479.6	48.6	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3331.3	239.8	35.6	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	868.5	119.9	29.2	16.2	9.7	3.2	0.0	0.0	0.0	0.0	0.0
80°	171.8	77.8	25.9	19.4	13.0	6.5	0.0	0.0	0.0	0.0	0.0
82.5°	81.0	55.1	25.9	19.4	16.2	9.7	3.2	0.0	0.0	0.0	0.0
85°	42.1	25.9	25.9	19.4	19.4	13.0	6.5	0.0	0.0	0.0	0.0
87.5°	19.4	9.7	9.7	9.7	9.7	6.5	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)