

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: P481926

Luminaire Tested: **IFLD-L-SA7B-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

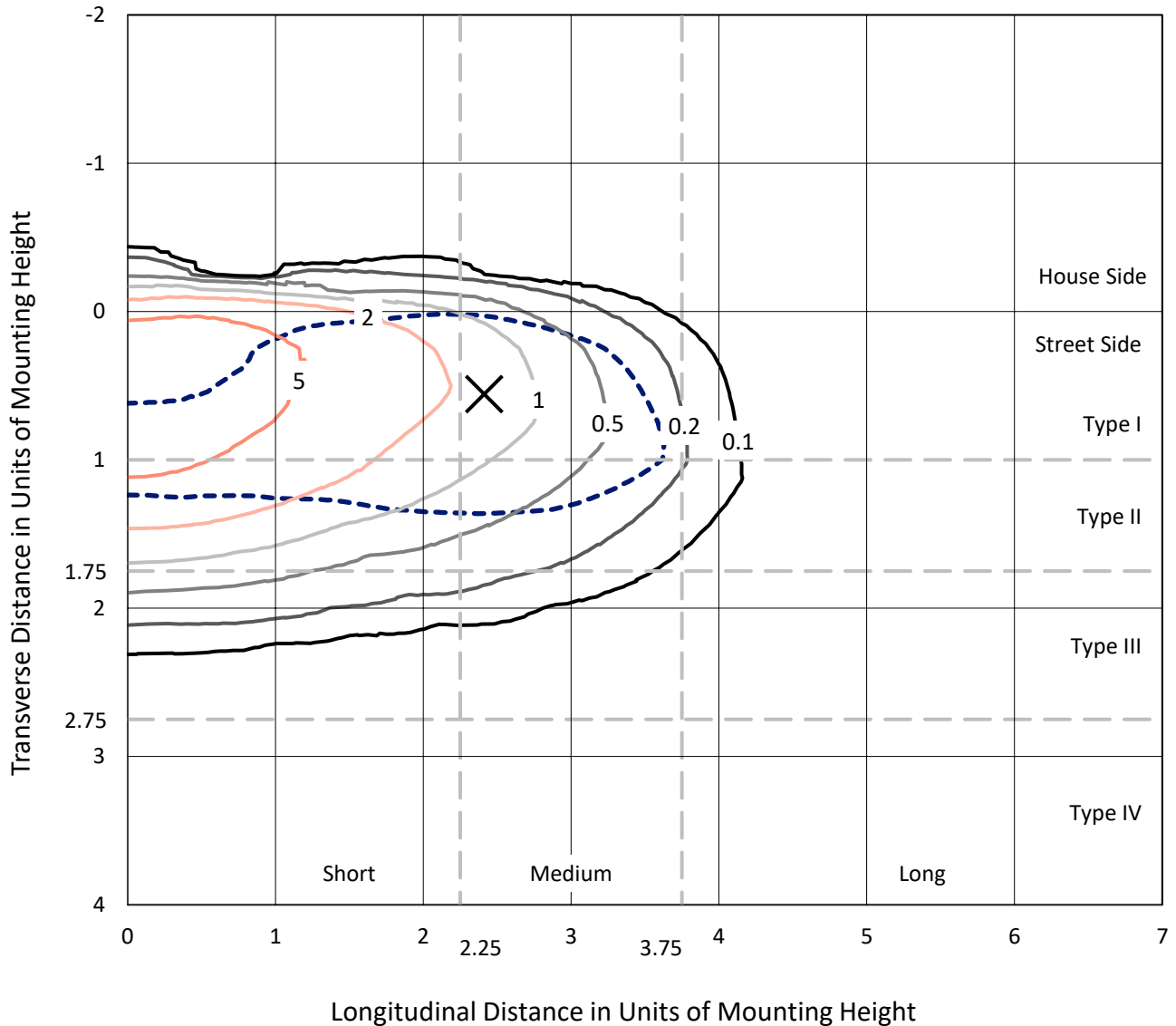
Lumens per Lamp: N/A
Luminaire Lumens: 20623.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 281
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

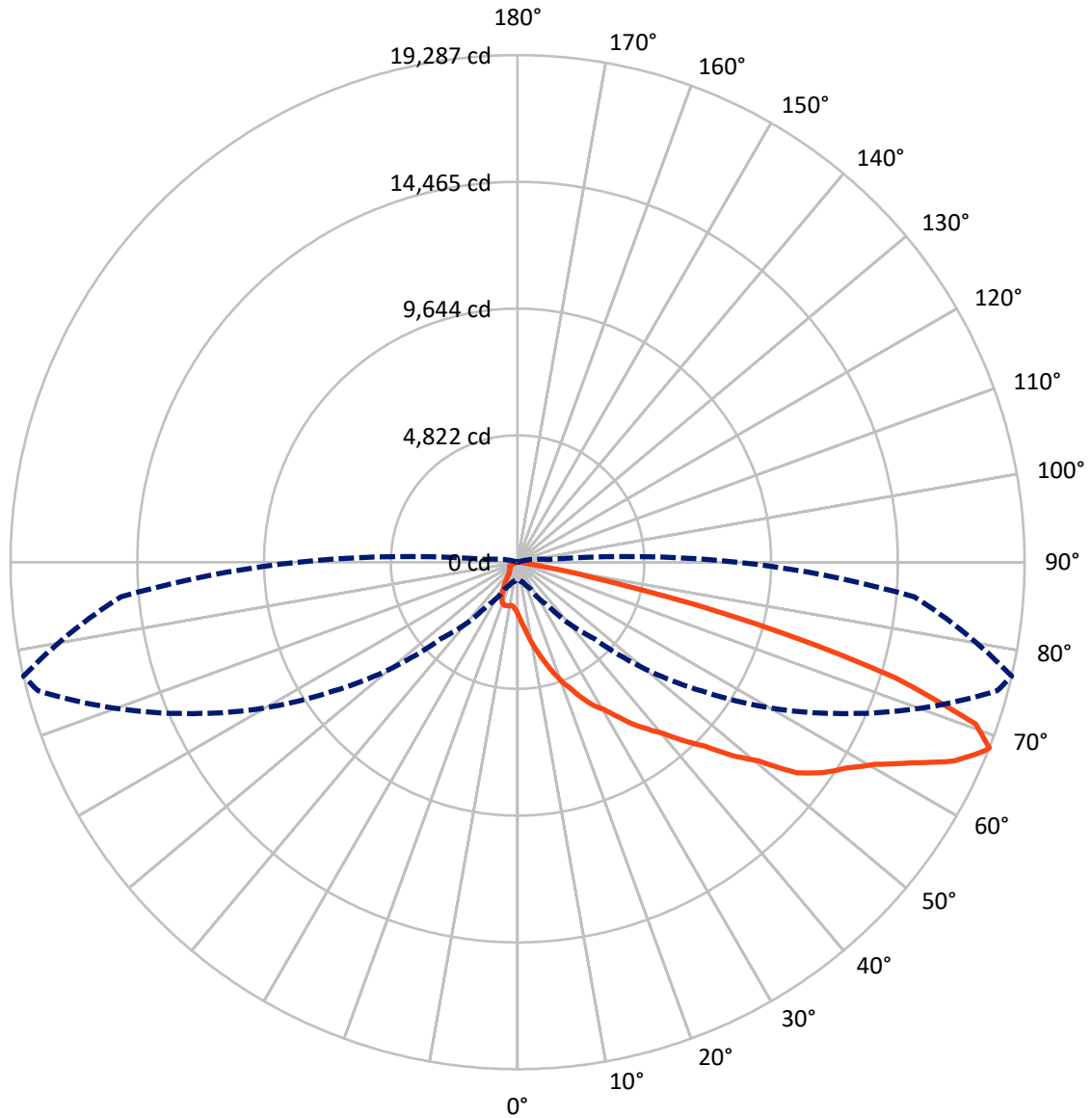
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	935.3	0.0	935.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19688.4	0.0	19688.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	20623.7	0.0	20623.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.1
10°-20°	850.9	4.1
20°-30°	1649.0	8.0
30°-40°	2874.7	13.9
40°-50°	4210.3	20.4
50°-60°	4946.4	24.0
60°-70°	4176.8	20.3
70°-80°	1619.0	7.9
80°-90°	65.8	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°	20623.7	100.0
0°-180°	20623.7	100.0

Coefficient of Utilization



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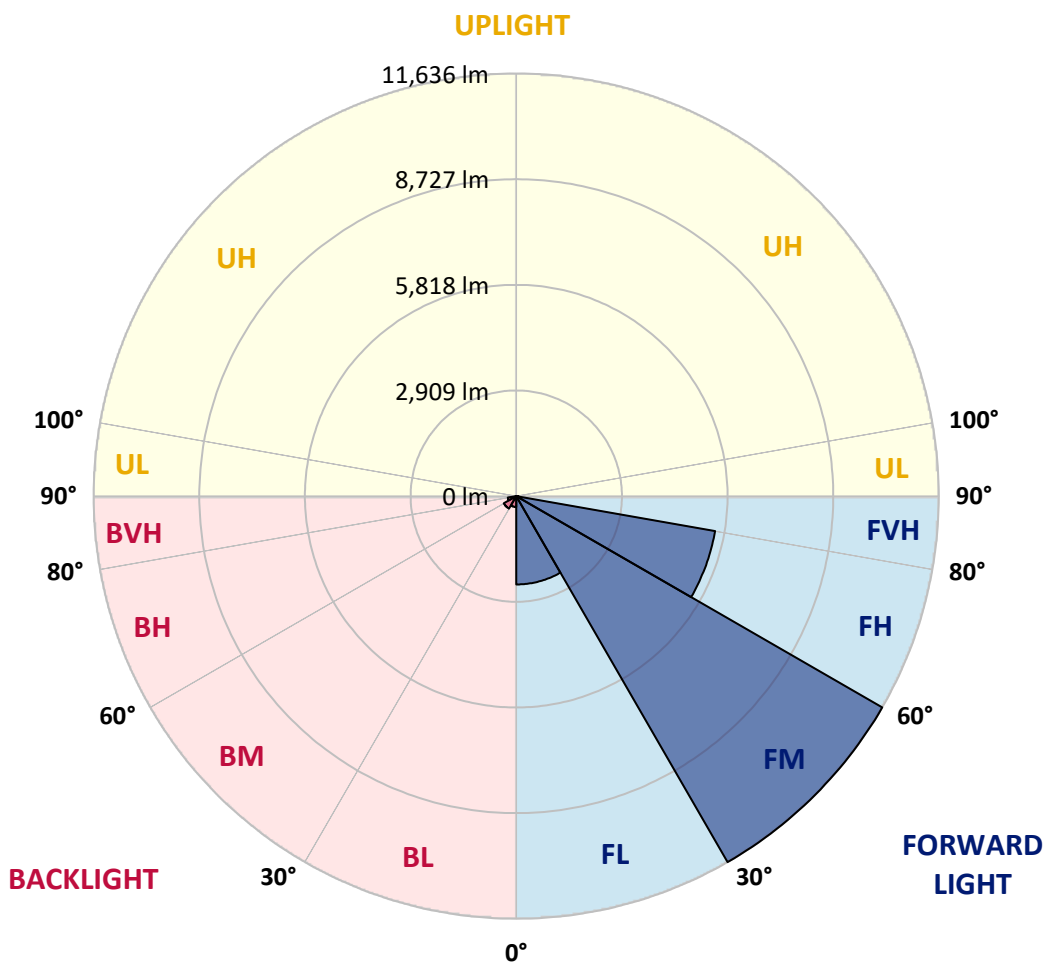
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.7	11.8			
FM (30°-60°)	11636.3	56.4			
FH (60°-80°)	5559.7	27.0			G3/7500
FVH (80°-90°)	60.7	0.3			G1/100
BL (0°-30°)	298.8	1.4	B1/500		
BM (30°-60°)	395.2	1.9	B1/1000		
BH (60°-80°)	236.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	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°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	3000.5	2943.7	2884.0	2866.9	2756.1	2631.1	2514.6	2401.0	2210.6	2213.4	2082.7
5°	3867.1	3796.1	3747.8	3736.4	3563.1	3347.1	3171.0	2849.9	2534.5	2463.5	2224.8
7.5°	4580.3	4557.6	4486.5	4426.8	4299.0	4034.7	3827.3	3367.0	2886.8	2807.3	2398.1
10°	5012.2	5046.3	5077.5	5000.8	4901.4	4711.0	4426.8	3929.6	3287.5	3188.0	2622.6
12.5°	5472.5	5415.6	5435.5	5498.0	5367.3	5324.7	4972.4	4509.2	3756.3	3565.9	2906.7
15°	5591.8	5614.5	5662.8	5844.7	5932.8	5810.6	5506.6	4978.1	4242.2	3977.9	3171.0
17.5°	5671.4	5660.0	5719.7	5992.4	6126.0	6242.5	6052.1	5500.9	4665.5	4429.7	3500.6
20°	5770.8	5708.3	5839.0	6012.3	6322.0	6566.4	6557.9	6026.5	5108.8	4858.7	3827.3
22.5°	6140.2	6091.9	6197.0	6214.1	6430.0	6771.0	6853.4	6455.6	5563.4	5256.5	4179.6
25°	6822.1	6910.2	6785.2	6677.2	6742.6	6967.0	7026.7	6836.3	6020.9	5739.6	4532.0
27.5°	7819.4	7808.1	7560.9	7421.6	7265.4	7237.0	7279.6	7191.5	6381.7	6180.0	4821.8
30°	8890.6	8796.9	8569.6	8234.3	7890.5	7677.4	7617.7	7526.8	6805.1	6512.4	5108.8
32.5°	9743.0	9794.2	9541.3	9103.7	8532.6	8245.6	7958.7	7859.2	7271.1	7012.5	5438.4
35°	10527.3	10459.1	10257.3	9888.0	9376.5	8913.4	8464.4	8251.3	7830.8	7575.1	5802.1
37.5°	11106.9	11192.1	10808.6	10456.2	9947.6	9564.0	9123.6	8657.6	8407.6	8066.6	6245.3
40°	11655.3	11521.7	11263.2	10939.3	10467.6	10174.9	9885.1	9157.7	9021.3	8580.9	6745.4
42.5°	11558.7	11567.2	11425.1	11163.7	10822.8	10655.1	10555.7	9765.8	9578.2	9296.9	7234.1
45°	11163.7	11197.8	11246.1	11118.3	11146.7	10979.0	11246.1	10464.7	10280.1	9981.7	7796.7
47.5°	10729.0	10785.8	10774.5	11007.4	11271.7	11328.5	11996.2	11240.4	11160.9	10996.1	8575.2
50°	10007.3	10030.0	10248.8	10672.2	11033.0	11626.9	12558.8	12087.2	12209.3	11885.4	9501.5
52.5°	8774.1	8856.5	9419.1	10024.3	10751.7	11777.5	12939.6	13345.9	13655.6	13323.2	10390.9
55°	7214.2	7327.9	7881.9	9015.7	10081.2	11550.2	13286.2	14010.8	14638.7	14135.8	10930.7
57.5°	5804.9	5816.3	6313.5	7484.2	9129.3	11104.1	13462.4	14334.7	15178.6	14775.1	11589.9
60°	4424.0	4378.5	4824.6	5839.0	7526.8	10007.3	13022.0	14499.5	15852.0	15619.0	12382.7
62.5°	2847.0	2776.0	3261.9	4250.7	5878.8	8180.3	12141.2	14502.3	16903.3	16815.2	13709.6
65°	1409.3	1361.0	1778.7	2605.5	4068.8	6256.7	10885.3	14448.3	18187.6	18244.4	15002.4
67.5°	744.4	761.5	895.0	1321.2	2347.0	4421.2	8992.9	13814.7	18843.9	19162.2	15315.0
68°	684.8	690.5	795.6	1099.6	2037.3	4100.1	8544.0	13630.0	18895.1	19287.2	15141.6
70°	556.9	565.4	602.4	690.5	1102.4	2668.0	6592.0	12061.6	18125.1	18483.1	13706.7
72.5°	443.3	468.8	491.6	528.5	647.8	1400.8	4100.1	9399.2	14974.0	15013.8	10669.3
75°	338.1	358.0	403.5	434.7	505.8	770.0	1952.0	5731.0	9825.4	9342.4	6285.1
77.5°	261.4	278.5	298.3	341.0	423.4	520.0	596.7	2432.2	4174.0	3435.2	1775.9
80°	156.3	167.6	233.0	267.1	369.4	352.3	235.8	676.2	846.7	667.7	323.9
82.5°	90.9	99.4	133.5	204.6	258.6	190.4	139.2	210.3	207.4	181.8	108.0
85°	2.8	5.7	73.9	122.2	90.9	51.1	85.2	88.1	73.9	68.2	48.3
87.5°	0.0	2.8	19.9	17.0	19.9	11.4	17.0	22.7	28.4	25.6	19.9
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°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	1994.6	1932.1	1792.9	1687.8	1574.1	1505.9	1437.7	1395.1	1372.4	1358.2	1369.5
5°	2045.8	1915.1	1690.6	1491.7	1361.0	1272.9	1184.8	1139.4	1096.8	1074.0	1088.2
7.5°	2159.4	1963.4	1591.2	1375.2	1221.8	1085.4	974.6	886.5	835.4	789.9	798.4
10°	2298.7	1991.8	1594.0	1307.0	1085.4	869.5	713.2	602.4	539.9	500.1	497.2
12.5°	2440.7	2102.6	1605.4	1238.8	917.8	653.5	468.8	386.4	349.5	329.6	329.6
15°	2656.7	2202.1	1577.0	1113.8	696.1	426.2	321.1	292.7	278.5	261.4	264.2
17.5°	2844.2	2361.2	1562.8	926.3	477.3	306.9	267.1	235.8	221.6	204.6	204.6
20°	3097.1	2460.6	1486.0	716.0	329.6	255.7	215.9	187.5	164.8	150.6	153.4
22.5°	3327.2	2537.3	1349.6	488.7	252.9	201.7	159.1	130.7	110.8	93.8	96.6
25°	3577.3	2614.1	1150.8	301.2	179.0	125.0	85.2	62.5	42.6	31.3	31.3
27.5°	3756.3	2636.8	892.2	179.0	108.0	56.8	19.9	2.8	0.0	0.0	0.0
30°	3938.1	2645.3	616.6	96.6	42.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4145.6	2642.5	386.4	51.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	4304.7	2594.2	184.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4546.2	2523.1	56.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4821.8	2395.3	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5069.0	2264.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5350.3	2102.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5844.7	2034.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6489.7	1980.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6887.5	1821.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7094.9	1656.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7401.8	1577.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7856.4	1582.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8566.7	1662.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8958.8	1582.6	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8626.4	1267.2	54.0	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	8339.4	1165.0	54.0	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	6893.2	758.6	51.1	14.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5020.7	420.5	42.6	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2920.9	210.3	31.3	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	761.5	105.1	25.6	14.2	8.5	2.8	0.0	0.0	0.0	0.0	0.0
80°	150.6	68.2	22.7	17.0	11.4	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	71.0	48.3	22.7	17.0	14.2	8.5	2.8	0.0	0.0	0.0	0.0
85°	36.9	22.7	22.7	17.0	17.0	11.4	5.7	0.0	0.0	0.0	0.0
87.5°	17.0	8.5	8.5	8.5	8.5	5.7	2.8	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)