

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: P482239

Luminaire Tested: **IFLD-L-SA7C-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482239
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

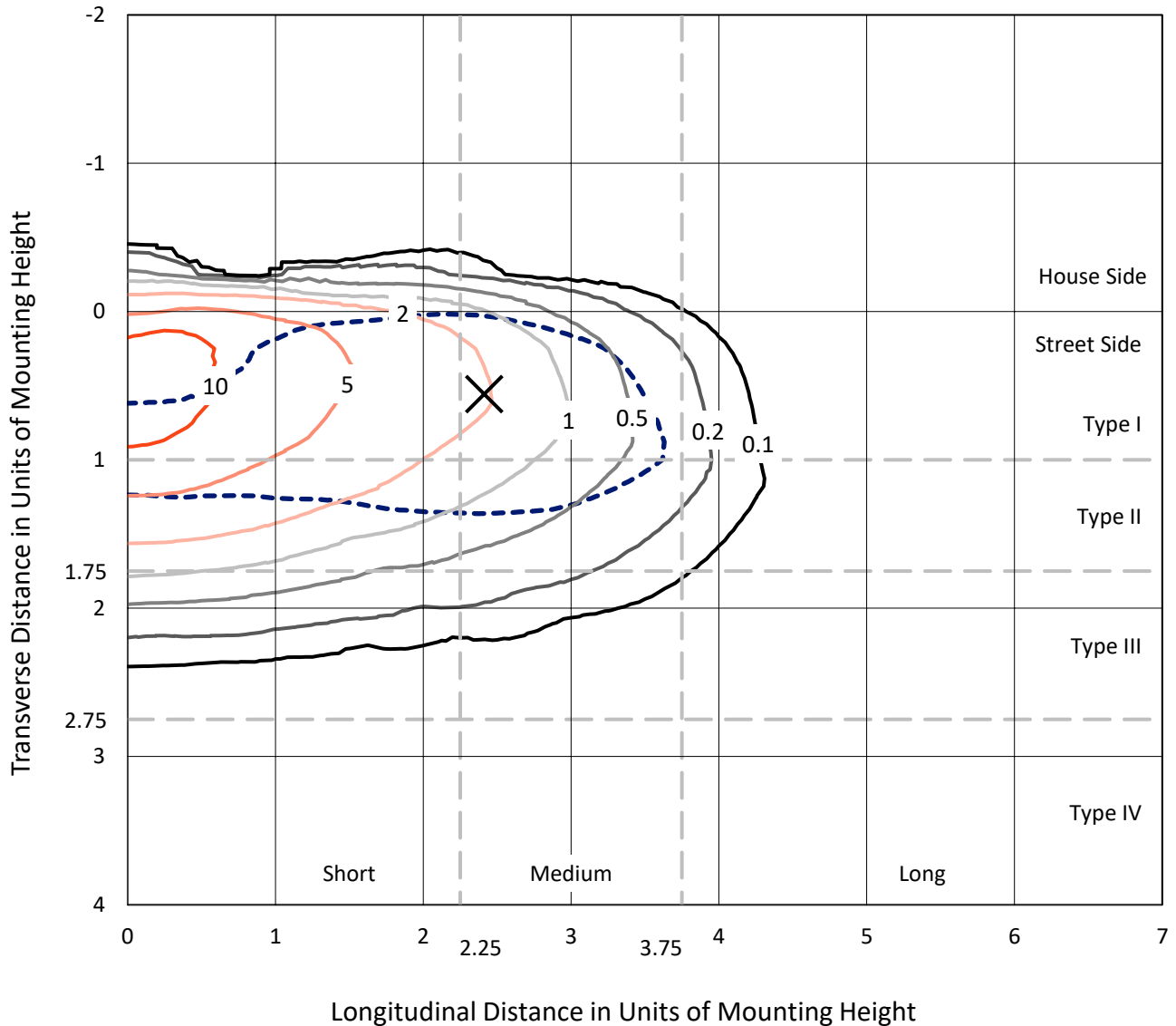
Lumens per Lamp: N/A
Luminaire Lumens: 27694.4 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 369
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

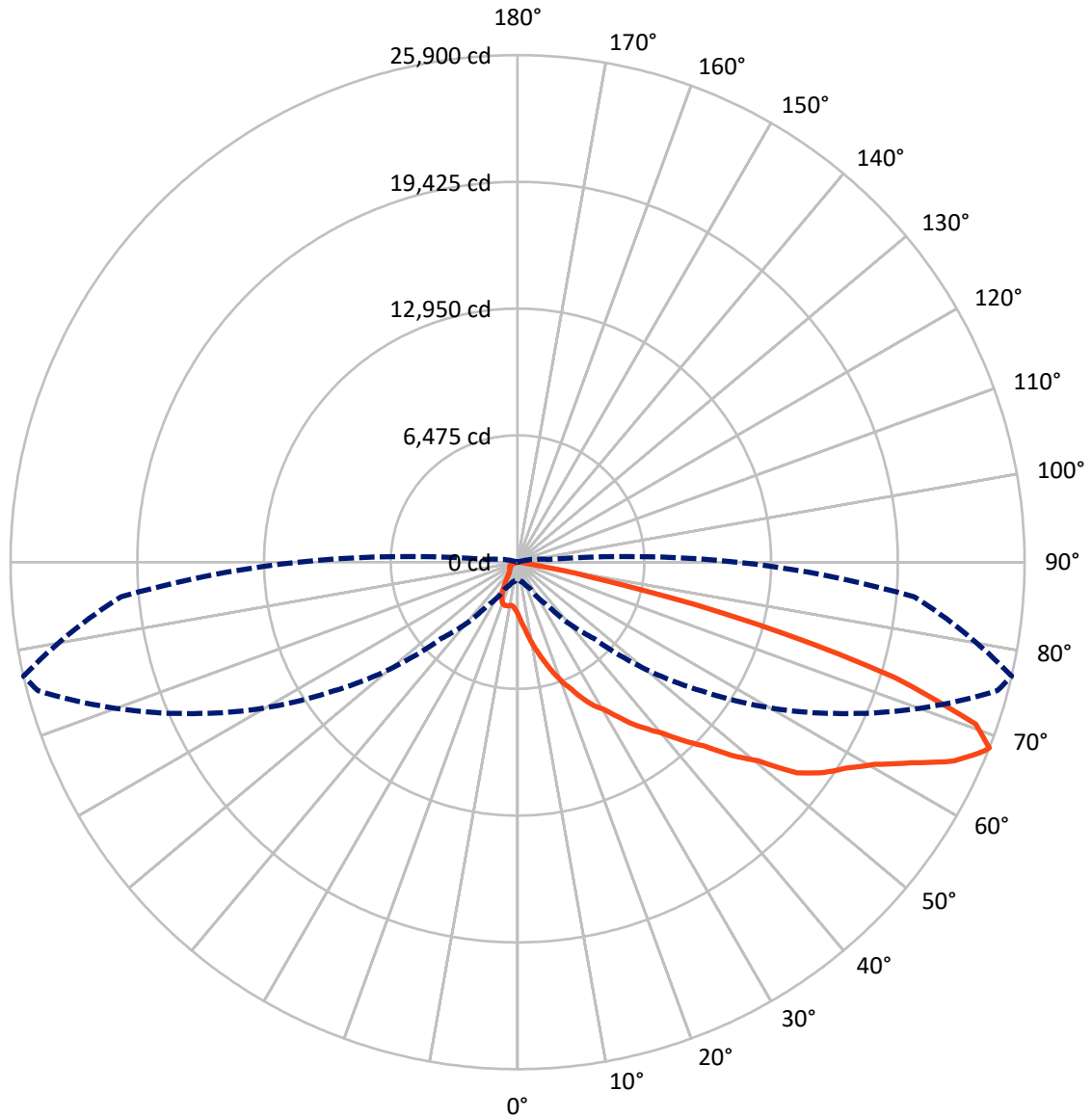
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	1255.9	0.0	1255.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	26438.5	0.0	26438.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	27694.4	0.0	27694.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	1.1
10°-20°	1142.6	4.1
20°-30°	2214.3	8.0
30°-40°	3860.3	13.9
40°-50°	5653.8	20.4
50°-60°	6642.3	24.0
60°-70°	5608.8	20.3
70°-80°	2174.1	7.9
80°-90°	88.4	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°	27694.4	100.0
0°-180°	27694.4	100.0

Coefficient of Utilization



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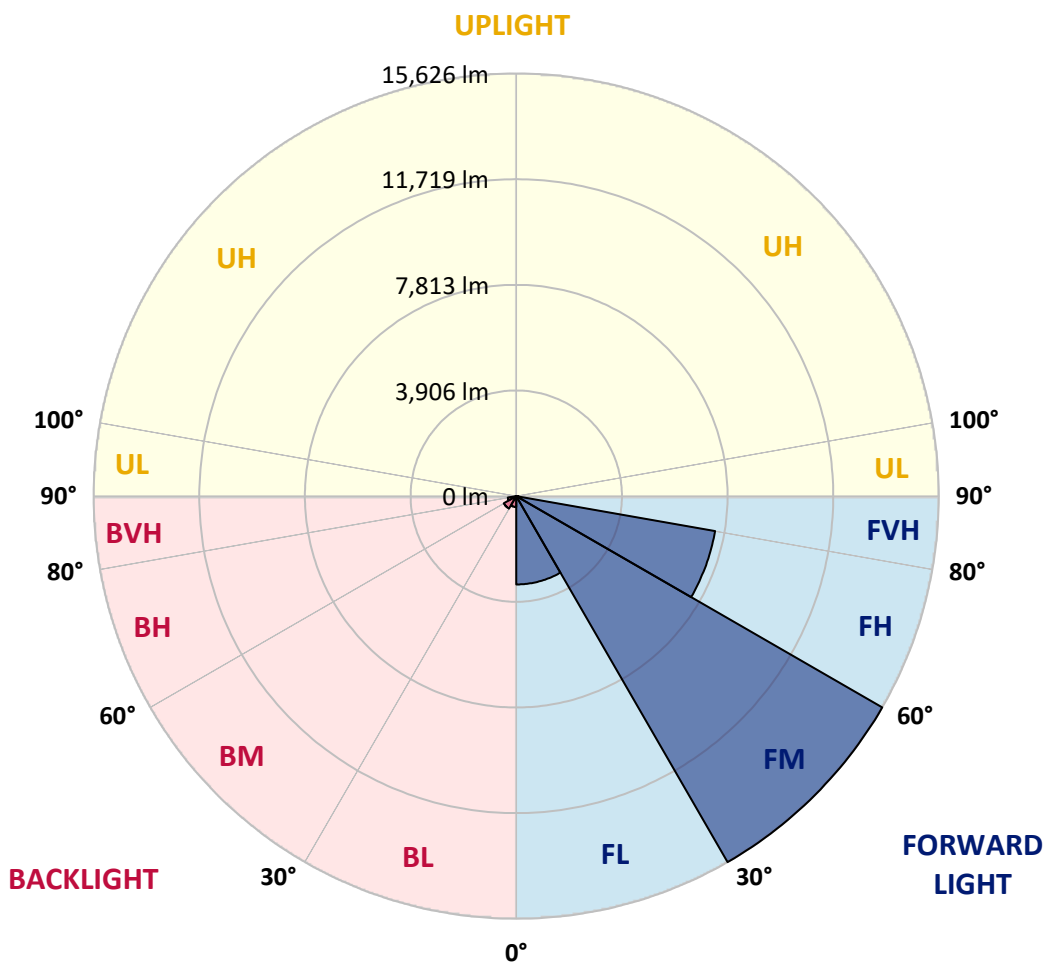
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3265.4	11.8			
FM (30°-60°)	15625.7	56.4			
FH (60°-80°)	7465.8	27.0			G3/7500
FVH (80°-90°)	81.6	0.3			G1/100
BL (0°-30°)	401.3	1.4	B1/500		
BM (30°-60°)	530.7	1.9	B1/1000		
BH (60°-80°)	317.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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°	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8
2.5°	4029.2	3952.9	3872.7	3849.9	3701.0	3533.2	3376.7	3224.1	2968.5	2972.3	2796.8
5°	5192.9	5097.5	5032.7	5017.4	4784.7	4494.7	4258.1	3827.0	3403.4	3308.0	2987.5
7.5°	6150.6	6120.1	6024.7	5944.6	5772.9	5418.0	5139.5	4521.4	3876.6	3769.7	3220.3
10°	6730.6	6776.3	6818.3	6715.3	6581.8	6326.1	5944.6	5276.9	4414.5	4281.0	3521.7
12.5°	7348.7	7272.4	7299.1	7383.0	7207.5	7150.3	6677.1	6055.2	5044.1	4788.5	3903.3
15°	7508.9	7539.4	7604.3	7848.5	7966.8	7802.7	7394.5	6684.8	5696.6	5341.7	4258.1
17.5°	7615.8	7600.5	7680.6	8046.9	8226.2	8382.7	8127.0	7386.8	6265.1	5948.4	4700.7
20°	7749.3	7665.4	7840.9	8073.6	8489.5	8817.6	8806.2	8092.7	6860.3	6524.5	5139.5
22.5°	8245.3	8180.5	8321.6	8344.5	8634.5	9092.4	9203.0	8668.8	7470.8	7058.7	5612.6
25°	9161.0	9279.3	9111.4	8966.5	9054.2	9355.6	9435.8	9180.1	8085.1	7707.3	6085.7
27.5°	10500.3	10485.0	10153.1	9966.1	9756.3	9718.1	9775.3	9657.1	8569.6	8298.7	6474.9
30°	11938.7	11812.8	11507.6	11057.4	10595.7	10309.5	10229.4	10107.3	9138.1	8745.2	6860.3
32.5°	13083.4	13152.1	12812.5	12224.9	11458.0	11072.6	10687.2	10553.7	9763.9	9416.7	7302.9
35°	14136.5	14044.9	13774.0	13278.0	12591.2	11969.3	11366.4	11080.2	10515.5	10172.2	7791.3
37.5°	14914.8	15029.3	14514.2	14041.1	13358.1	12843.0	12251.6	11625.9	11290.1	10832.2	8386.5
40°	15651.2	15471.9	15124.7	14689.7	14056.3	13663.3	13274.2	12297.4	12114.2	11522.8	9058.0
42.5°	15521.5	15532.9	15342.2	14991.1	14533.3	14308.2	14174.6	13113.9	12862.1	12484.4	9714.3
45°	14991.1	15036.9	15101.8	14930.1	14968.2	14743.1	15101.8	14052.5	13804.5	13403.9	10469.8
47.5°	14407.4	14483.7	14468.4	14781.3	15136.1	15212.4	16109.1	15094.2	14987.3	14766.0	11515.2
50°	13438.2	13468.8	13762.5	14331.1	14815.6	15613.1	16864.6	16231.2	16395.3	15960.3	12759.1
52.5°	11782.3	11892.9	12648.4	13461.1	14437.9	15815.3	17375.8	17921.5	18337.3	17890.9	13953.3
55°	9687.6	9840.2	10584.2	12106.6	13537.4	15510.1	17841.3	18814.3	19657.5	18982.2	14678.3
57.5°	7795.1	7810.4	8478.1	10050.1	12259.2	14911.0	18077.9	19249.3	20382.5	19840.7	15563.5
60°	5940.8	5879.7	6478.7	7840.9	10107.3	13438.2	17486.5	19470.6	21286.7	20973.9	16628.0
62.5°	3823.1	3727.8	4380.2	5708.0	7894.3	10984.9	16303.7	19474.4	22698.5	22580.2	18409.8
65°	1892.5	1827.6	2388.5	3498.8	5463.8	8401.8	14617.2	19401.9	24423.1	24499.4	20145.9
67.5°	999.7	1022.6	1201.9	1774.2	3151.6	5936.9	12076.1	18551.0	25304.5	25731.8	20565.6
68°	919.5	927.2	1068.3	1476.6	2735.7	5505.8	11473.2	18303.0	25373.1	25899.7	20332.9
70°	747.8	759.3	808.9	927.2	1480.4	3582.8	8852.0	16196.8	24339.1	24819.9	18406.0
72.5°	595.2	629.6	660.1	709.7	869.9	1881.0	5505.8	12621.7	20107.7	20161.2	14327.2
75°	454.0	480.8	541.8	583.8	679.2	1034.0	2621.3	7695.9	13194.0	12545.4	8439.9
77.5°	351.0	373.9	400.6	457.9	568.5	698.2	801.3	3266.1	5605.0	4613.0	2384.7
80°	209.9	225.1	312.9	358.7	496.0	473.1	316.7	908.1	1137.0	896.6	435.0
82.5°	122.1	133.5	179.3	274.7	347.2	255.6	187.0	282.3	278.5	244.2	145.0
85°	3.8	7.6	99.2	164.1	122.1	68.7	114.5	118.3	99.2	91.6	64.9
87.5°	0.0	3.8	26.7	22.9	26.7	15.3	22.9	30.5	38.2	34.3	26.7
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°	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8
2.5°	2678.5	2594.5	2407.6	2266.4	2113.8	2022.2	1930.6	1873.4	1842.9	1823.8	1839.1
5°	2747.2	2571.7	2270.2	2003.1	1827.6	1709.3	1591.1	1530.0	1472.8	1442.3	1461.3
7.5°	2899.8	2636.5	2136.7	1846.7	1640.7	1457.5	1308.7	1190.4	1121.8	1060.7	1072.2
10°	3086.7	2674.7	2140.5	1755.1	1457.5	1167.5	957.7	808.9	724.9	671.5	667.7
12.5°	3277.5	2823.5	2155.8	1663.6	1232.4	877.6	629.6	518.9	469.3	442.6	442.6
15°	3567.5	2957.0	2117.6	1495.7	934.8	572.3	431.2	393.0	373.9	351.0	354.8
17.5°	3819.3	3170.7	2098.5	1243.9	641.0	412.1	358.7	316.7	297.6	274.7	274.7
20°	4158.9	3304.2	1995.5	961.5	442.6	343.4	290.0	251.8	221.3	202.2	206.0
22.5°	4468.0	3407.3	1812.4	656.3	339.6	270.9	213.7	175.5	148.8	125.9	129.7
25°	4803.7	3510.3	1545.3	404.4	240.4	167.9	114.5	83.9	57.2	42.0	42.0
27.5°	5044.1	3540.8	1198.1	240.4	145.0	76.3	26.7	3.8	0.0	0.0	0.0
30°	5288.3	3552.2	828.0	129.7	57.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5566.8	3548.4	518.9	68.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	5780.5	3483.6	248.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6104.8	3388.2	76.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6474.9	3216.5	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6806.9	3041.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7184.6	2823.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7848.5	2731.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8714.6	2659.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9248.8	2445.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9527.3	2224.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9939.4	2117.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10549.9	2125.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11503.8	2232.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12030.3	2125.2	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11583.9	1701.7	72.5	19.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	11198.5	1564.4	72.5	19.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	9256.4	1018.7	68.7	19.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6742.0	564.7	57.2	15.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	3922.3	282.3	42.0	15.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1022.6	141.2	34.3	19.1	11.4	3.8	0.0	0.0	0.0	0.0	0.0
80°	202.2	91.6	30.5	22.9	15.3	7.6	0.0	0.0	0.0	0.0	0.0
82.5°	95.4	64.9	30.5	22.9	19.1	11.4	3.8	0.0	0.0	0.0	0.0
85°	49.6	30.5	30.5	22.9	22.9	15.3	7.6	0.0	0.0	0.0	0.0
87.5°	22.9	11.4	11.4	11.4	11.4	7.6	3.8	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)