

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: P481898

Luminaire Tested: **IFLD-S-SA2D-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

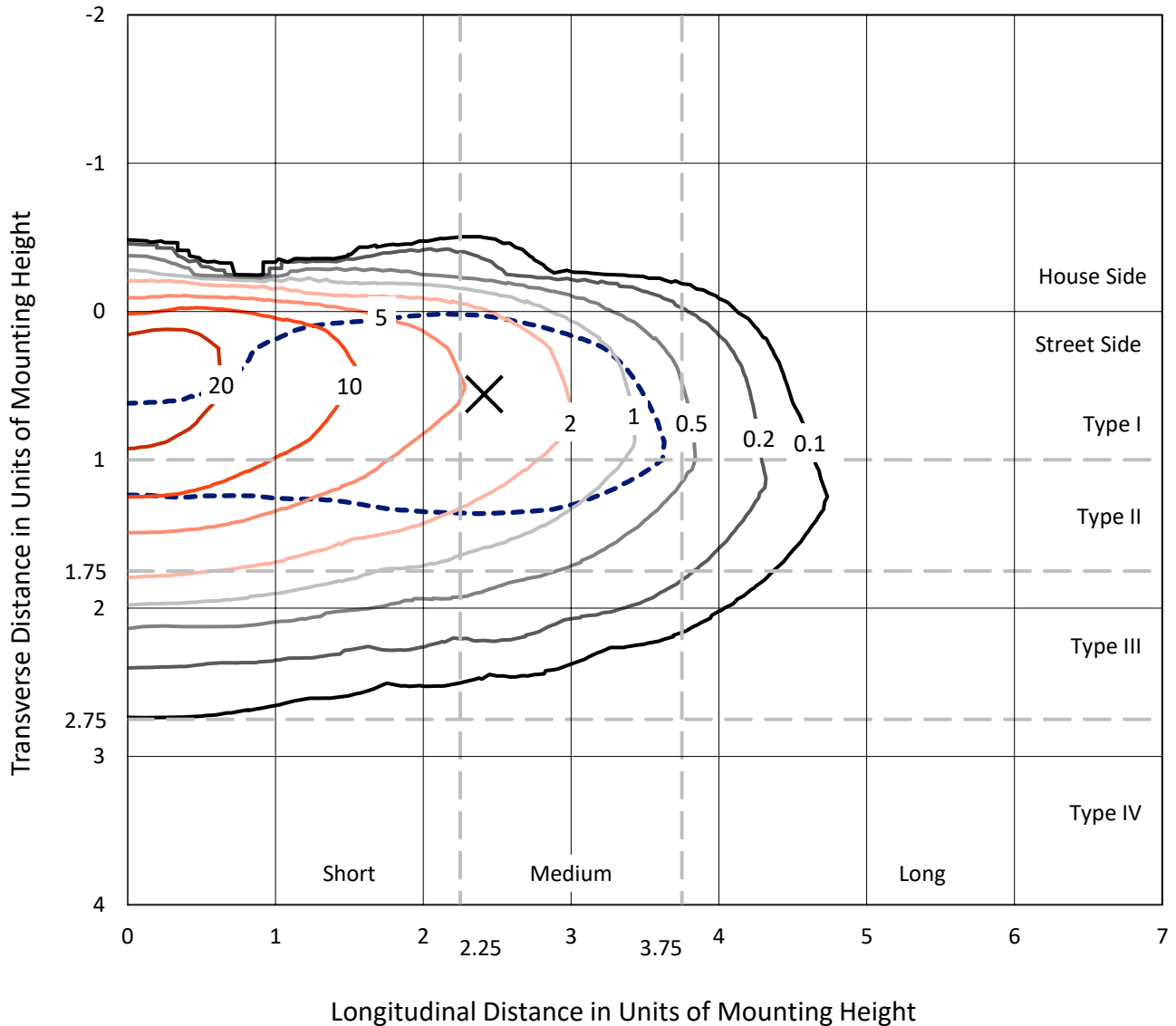
Lumens per Lamp: N/A
Luminaire Lumens: 9057.2 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

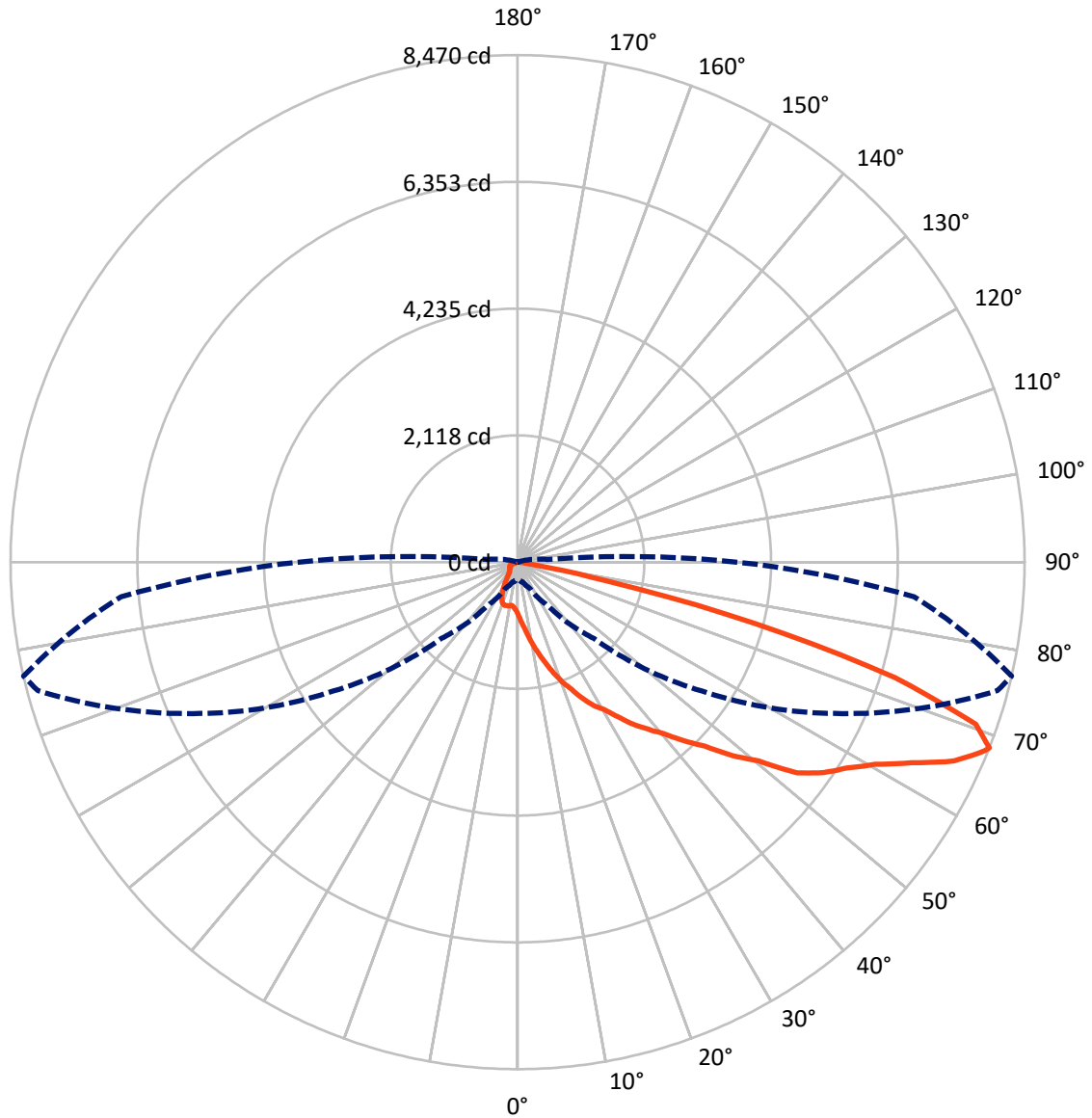
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 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	410.7	0.0	410.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8646.4	0.0	8646.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	9057.2	0.0	9057.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.1
10°-20°	373.7	4.1
20°-30°	724.2	8.0
30°-40°	1262.5	13.9
40°-50°	1849.0	20.4
50°-60°	2172.3	24.0
60°-70°	1834.3	20.3
70°-80°	711.0	7.9
80°-90°	28.9	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°	9057.2	100.0
0°-180°	9057.2	100.0

Coefficient of Utilization

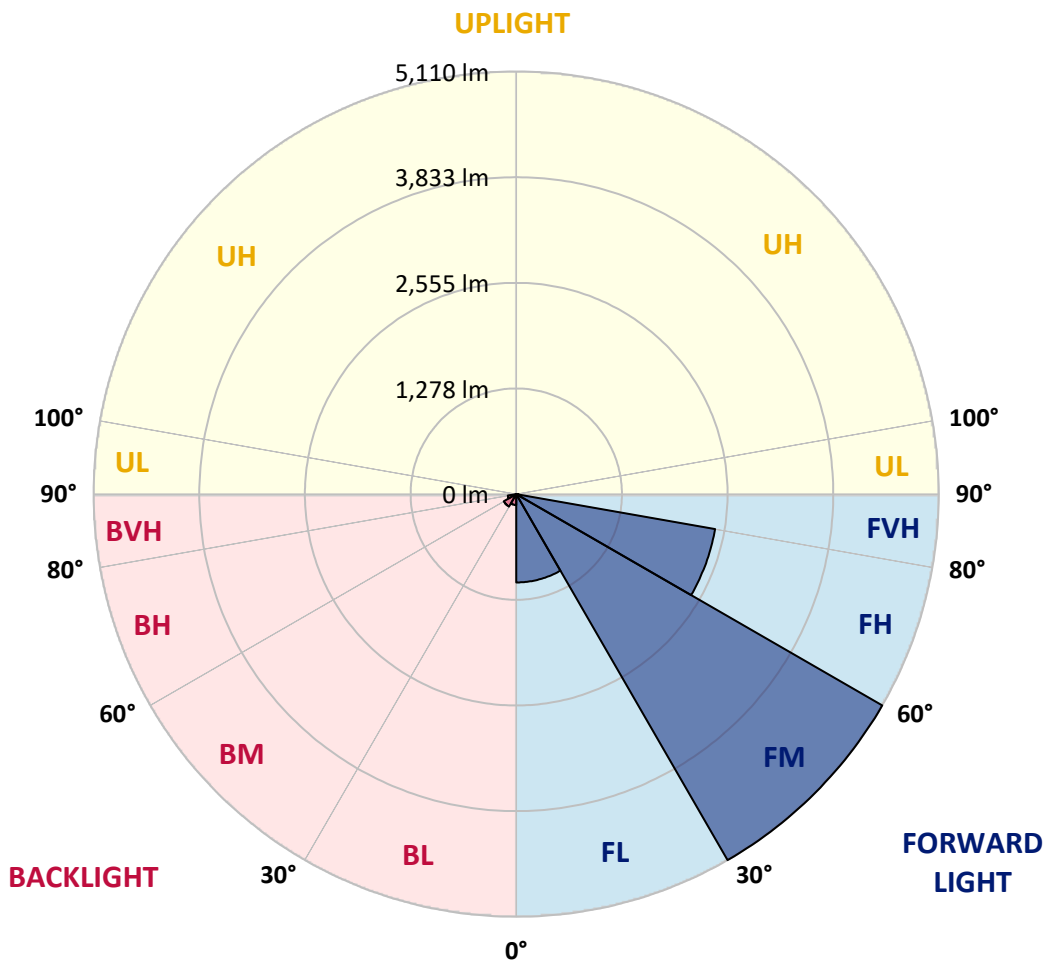


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.9	11.8			
FM (30°-60°)	5110.2	56.4			
FH (60°-80°)	2441.6	27.0			G2/5000
FVH (80°-90°)	26.7	0.3			G1/100
BL (0°-30°)	131.2	1.4	B1/500		
BM (30°-60°)	173.6	1.9	B0/220		
BH (60°-80°)	103.7	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	1317.7	1292.7	1266.5	1259.1	1210.4	1155.5	1104.3	1054.4	970.8	972.1	914.7
5°	1698.3	1667.1	1645.9	1640.9	1564.8	1469.9	1392.6	1251.6	1113.1	1081.9	977.0
7.5°	2011.5	2001.5	1970.3	1944.1	1888.0	1771.9	1680.8	1478.7	1267.8	1232.8	1053.2
10°	2201.2	2216.1	2229.9	2196.2	2152.5	2068.9	1944.1	1725.7	1443.7	1400.1	1151.7
12.5°	2403.3	2378.4	2387.1	2414.5	2357.1	2338.4	2183.7	1980.3	1649.6	1566.0	1276.5
15°	2455.7	2465.7	2486.9	2566.8	2605.5	2551.8	2418.3	2186.2	1863.0	1747.0	1392.6
17.5°	2490.7	2485.7	2511.9	2631.7	2690.3	2741.5	2657.9	2415.8	2048.9	1945.4	1537.3
20°	2534.3	2506.9	2564.3	2640.4	2776.4	2883.7	2880.0	2646.6	2243.6	2133.8	1680.8
22.5°	2696.5	2675.3	2721.5	2729.0	2823.8	2973.6	3009.8	2835.1	2443.2	2308.5	1835.5
25°	2996.0	3034.7	2979.8	2932.4	2961.1	3059.7	3085.9	3002.3	2644.1	2520.6	1990.3
27.5°	3434.0	3429.0	3320.5	3259.3	3190.7	3178.2	3196.9	3158.2	2802.6	2714.0	2117.6
30°	3904.4	3863.3	3763.4	3616.2	3465.2	3371.6	3345.4	3305.5	2988.5	2860.0	2243.6
32.5°	4278.8	4301.2	4190.2	3998.0	3747.2	3621.2	3495.2	3451.5	3193.2	3079.6	2388.3
35°	4623.2	4593.2	4504.6	4342.4	4117.8	3914.4	3717.3	3623.7	3439.0	3326.7	2548.1
37.5°	4877.7	4915.2	4746.7	4592.0	4368.6	4200.2	4006.8	3802.1	3692.3	3542.6	2742.7
40°	5118.6	5059.9	4946.4	4804.1	4597.0	4468.5	4341.2	4021.7	3961.8	3768.4	2962.3
42.5°	5076.1	5079.9	5017.5	4902.7	4753.0	4679.3	4635.7	4288.8	4206.4	4082.9	3177.0
45°	4902.7	4917.7	4938.9	4882.7	4895.2	4821.6	4938.9	4595.7	4514.6	4383.6	3424.0
47.5°	4711.8	4736.7	4731.7	4834.1	4950.1	4975.1	5268.3	4936.4	4901.5	4829.1	3765.9
50°	4394.8	4404.8	4500.9	4686.8	4845.3	5106.1	5515.4	5308.2	5361.9	5219.6	4172.7
52.5°	3853.3	3889.5	4136.5	4402.3	4721.8	5172.2	5682.6	5861.0	5997.0	5851.0	4563.3
55°	3168.2	3218.1	3461.5	3959.3	4427.3	5072.4	5834.8	6153.0	6428.8	6207.9	4800.4
57.5°	2549.3	2554.3	2772.7	3286.8	4009.3	4876.5	5912.2	6295.3	6665.9	6488.7	5089.9
60°	1942.9	1922.9	2118.8	2564.3	3305.5	4394.8	5718.8	6367.6	6961.6	6859.3	5438.0
62.5°	1250.3	1219.1	1432.5	1866.7	2581.7	3592.5	5332.0	6368.9	7423.3	7384.6	6020.7
65°	618.9	597.7	781.1	1144.3	1786.9	2747.7	4780.4	6345.2	7987.3	8012.3	6588.5
67.5°	326.9	334.4	393.1	580.2	1030.7	1941.6	3949.4	6066.9	8275.6	8415.3	6725.8
68°	300.7	303.2	349.4	482.9	894.7	1800.6	3752.2	5985.8	8298.0	8470.2	6649.7
70°	244.6	248.3	264.5	303.2	484.2	1171.7	2895.0	5297.0	7959.9	8117.1	6019.5
72.5°	194.7	205.9	215.9	232.1	284.5	615.2	1800.6	4127.8	6576.0	6593.5	4685.6
75°	148.5	157.2	177.2	190.9	222.1	338.2	857.3	2516.9	4315.0	4102.8	2760.2
77.5°	114.8	122.3	131.0	149.7	185.9	228.4	262.0	1068.1	1833.1	1508.6	779.9
80°	68.6	73.6	102.3	117.3	162.2	154.7	103.6	297.0	371.9	293.2	142.3
82.5°	39.9	43.7	58.6	89.8	113.6	83.6	61.1	92.3	91.1	79.9	47.4
85°	1.2	2.5	32.4	53.7	39.9	22.5	37.4	38.7	32.4	29.9	21.2
87.5°	0.0	1.2	8.7	7.5	8.7	5.0	7.5	10.0	12.5	11.2	8.7
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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	876.0	848.5	787.4	741.2	691.3	661.3	631.4	612.7	602.7	596.5	601.5
5°	898.4	841.0	742.5	655.1	597.7	559.0	520.3	500.4	481.7	471.7	477.9
7.5°	948.3	862.2	698.8	603.9	536.6	476.7	428.0	389.3	366.9	346.9	350.6
10°	1009.5	874.7	700.0	574.0	476.7	381.8	313.2	264.5	237.1	219.6	218.4
12.5°	1071.9	923.4	705.0	544.1	403.0	287.0	205.9	169.7	153.5	144.7	144.7
15°	1166.7	967.1	692.5	489.1	305.7	187.2	141.0	128.5	122.3	114.8	116.0
17.5°	1249.1	1036.9	686.3	406.8	209.6	134.8	117.3	103.6	97.3	89.8	89.8
20°	1360.1	1080.6	652.6	314.5	144.7	112.3	94.8	82.4	72.4	66.1	67.4
22.5°	1461.2	1114.3	592.7	214.6	111.1	88.6	69.9	57.4	48.7	41.2	42.4
25°	1571.0	1148.0	505.4	132.3	78.6	54.9	37.4	27.5	18.7	13.7	13.7
27.5°	1649.6	1158.0	391.8	78.6	47.4	25.0	8.7	1.2	0.0	0.0	0.0
30°	1729.5	1161.7	270.8	42.4	18.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1820.6	1160.5	169.7	22.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1890.5	1139.3	81.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1996.5	1108.1	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2117.6	1051.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2226.1	994.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2349.7	923.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2566.8	893.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2850.0	869.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3024.7	799.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3115.8	727.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3250.6	692.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3450.2	695.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3762.2	730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3934.4	695.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3788.4	556.5	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3662.4	511.6	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3027.2	333.2	22.5	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2204.9	184.7	18.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1282.8	92.3	13.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.4	46.2	11.2	6.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	66.1	29.9	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	21.2	10.0	7.5	6.2	3.7	1.2	0.0	0.0	0.0	0.0
85°	16.2	10.0	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	3.7	2.5	1.2	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)