

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: P481936

Luminaire Tested: **IFLD-S-SA2C-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481936
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

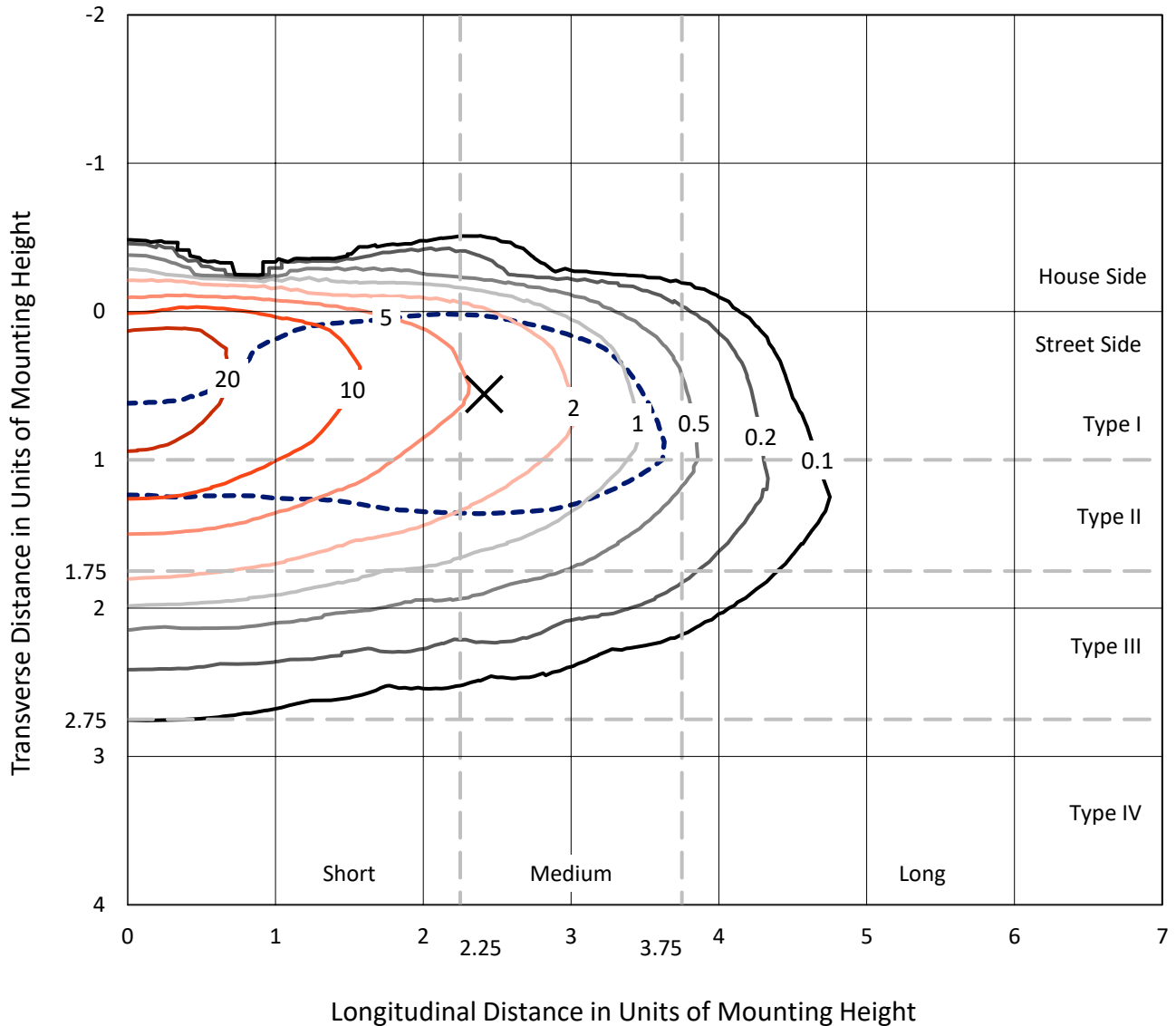
Lumens per Lamp: N/A
Luminaire Lumens: 9345.4 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

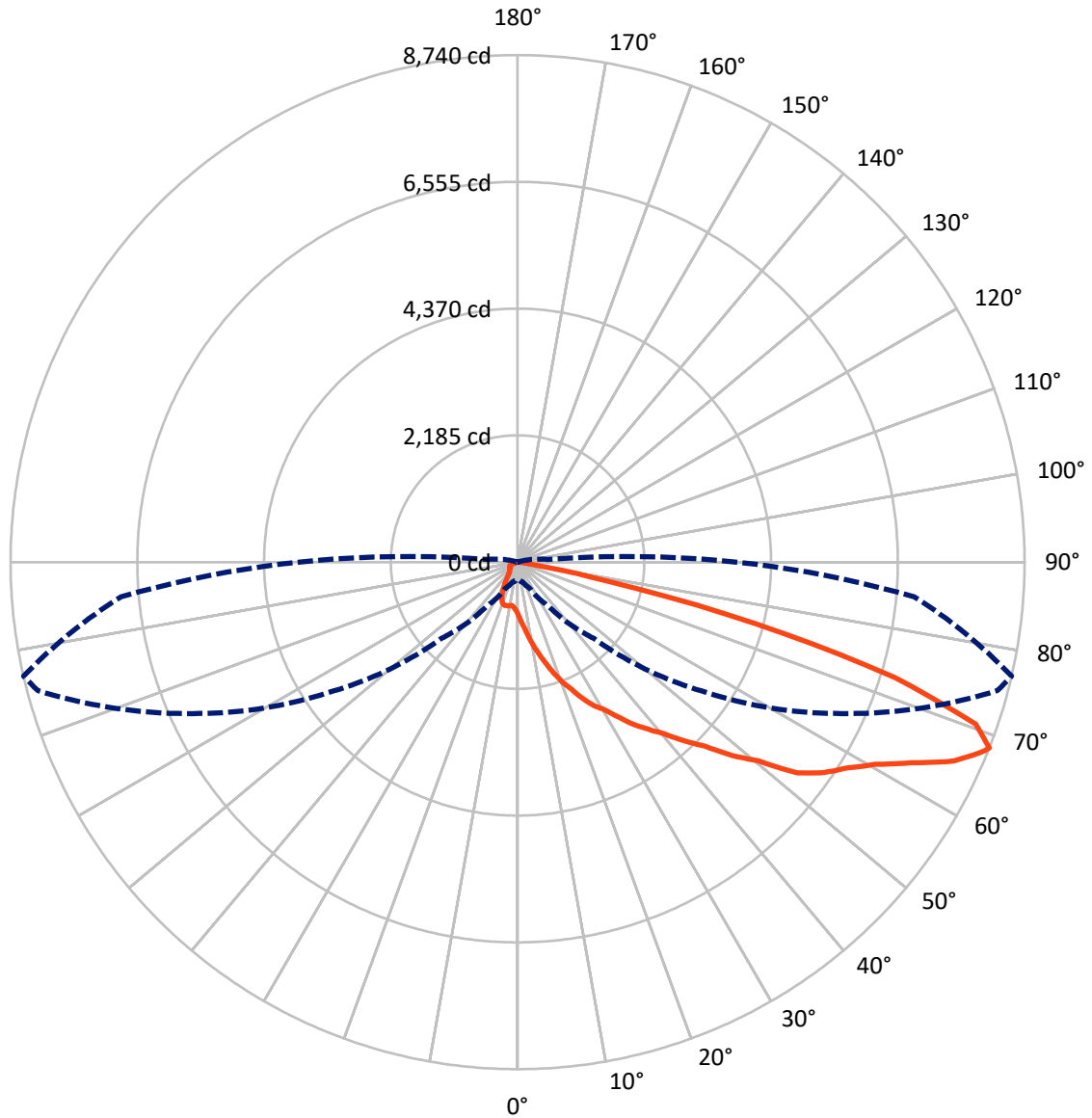
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.5 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	423.8	0.0	423.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8921.6	0.0	8921.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	9345.4	0.0	9345.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.1
10°-20°	385.6	4.1
20°-30°	747.2	8.0
30°-40°	1302.6	13.9
40°-50°	1907.9	20.4
50°-60°	2241.4	24.0
60°-70°	1892.7	20.3
70°-80°	733.7	7.9
80°-90°	29.8	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°	9345.4	100.0
0°-180°	9345.4	100.0

Coefficient of Utilization



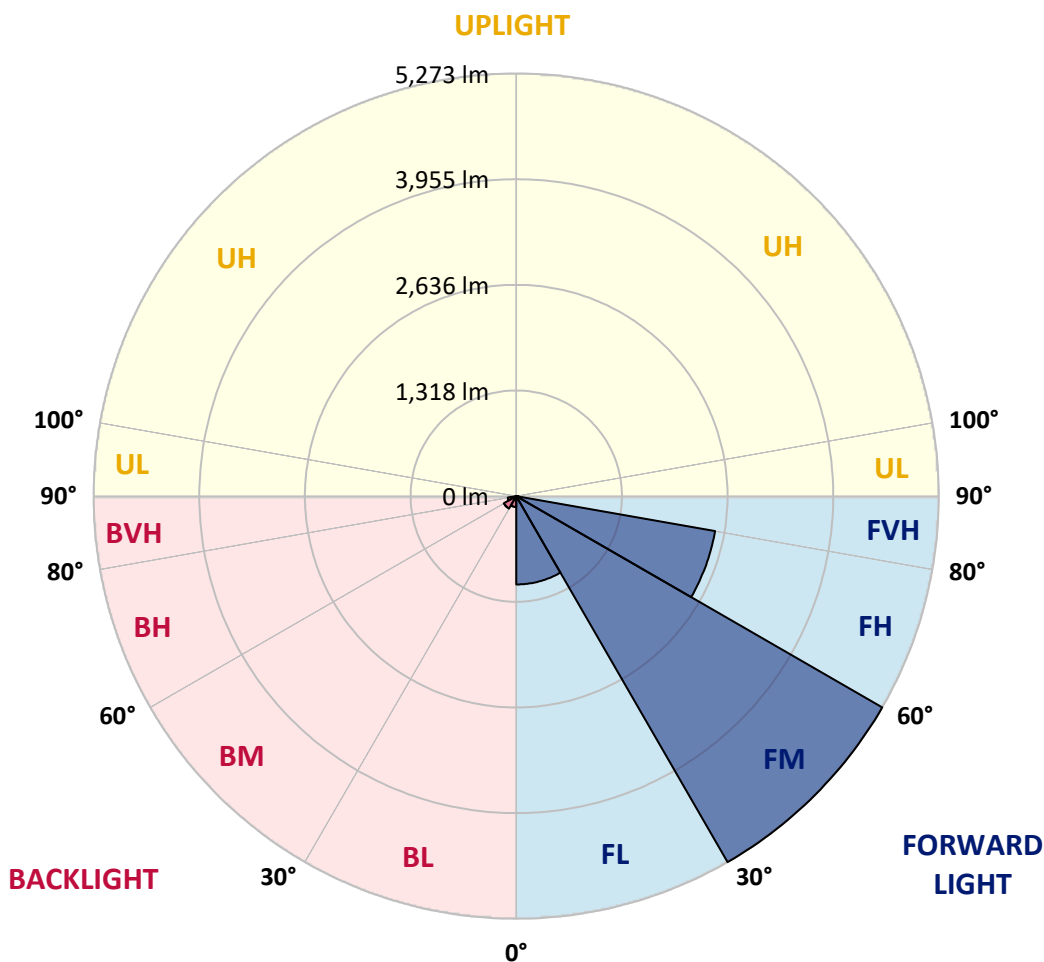
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.9	11.8			
FM (30°-60°)	5272.8	56.4			
FH (60°-80°)	2519.3	27.0			G2/5000
FVH (80°-90°)	27.5	0.3			G1/100
BL (0°-30°)	135.4	1.4	B1/500		
BM (30°-60°)	179.1	1.9	B0/220		
BH (60°-80°)	107.0	1.1	B0/110		G0/110
BVH (80°-90°)	2.3	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°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	1359.6	1333.9	1306.8	1299.1	1248.9	1192.3	1139.5	1088.0	1001.7	1003.0	943.8
5°	1752.3	1720.1	1698.3	1693.1	1614.6	1516.7	1436.9	1291.4	1148.5	1116.3	1008.1
7.5°	2075.5	2065.2	2033.0	2006.0	1948.0	1828.3	1734.3	1525.7	1308.1	1272.1	1086.7
10°	2271.2	2286.7	2300.8	2266.1	2221.0	2134.7	2006.0	1780.7	1489.7	1444.6	1188.4
12.5°	2479.8	2454.0	2463.0	2491.4	2432.1	2412.8	2253.2	2043.3	1702.1	1615.9	1317.1
15°	2533.9	2544.2	2566.1	2648.5	2688.4	2633.0	2495.2	2255.8	1922.3	1802.5	1436.9
17.5°	2569.9	2564.8	2591.8	2715.4	2775.9	2828.7	2742.4	2492.7	2114.1	2007.3	1586.2
20°	2615.0	2586.7	2645.9	2724.4	2864.8	2975.5	2971.6	2730.9	2315.0	2201.7	1734.3
22.5°	2782.4	2760.5	2808.1	2815.8	2913.7	3068.2	3105.5	2925.3	2521.0	2381.9	1894.0
25°	3091.4	3131.3	3074.6	3025.7	3055.3	3157.0	3184.1	3097.8	2728.3	2600.8	2053.6
27.5°	3543.3	3538.1	3426.1	3363.0	3292.2	3279.3	3298.7	3258.7	2891.8	2800.4	2184.9
30°	4028.7	3986.2	3883.2	3731.3	3575.5	3478.9	3451.9	3410.7	3083.6	2951.0	2315.0
32.5°	4414.9	4438.1	4323.5	4125.3	3866.5	3736.4	3606.4	3561.3	3294.8	3177.6	2464.3
35°	4770.3	4739.4	4648.0	4480.6	4248.9	4039.0	3835.6	3739.0	3548.4	3432.6	2629.1
37.5°	5033.0	5071.6	4897.8	4738.1	4507.7	4333.8	4134.3	3923.1	3809.8	3655.3	2830.0
40°	5281.5	5220.9	5103.8	4957.0	4743.3	4610.7	4479.3	4149.7	4087.9	3888.3	3056.6
42.5°	5237.7	5241.5	5177.2	5058.7	4904.2	4828.2	4783.2	4425.2	4340.3	4212.8	3278.1
45°	5058.7	5074.2	5096.1	5038.1	5051.0	4975.0	5096.1	4742.0	4658.3	4523.1	3533.0
47.5°	4861.7	4887.5	4882.3	4987.9	5107.6	5133.4	5436.0	5093.5	5057.4	4982.7	3885.8
50°	4534.7	4545.0	4644.1	4836.0	4999.5	5268.6	5690.9	5477.2	5532.5	5385.7	4305.5
52.5°	3975.9	4013.2	4268.2	4542.4	4872.0	5336.8	5863.4	6047.5	6187.9	6037.2	4708.5
55°	3269.0	3320.5	3571.6	4085.3	4568.2	5233.8	6020.5	6348.8	6633.4	6405.5	4953.1
57.5°	2630.4	2635.6	2860.9	3391.4	4136.8	5031.7	6100.3	6495.6	6878.0	6695.2	5251.8
60°	2004.7	1984.1	2186.2	2645.9	3410.7	4534.7	5900.8	6570.3	7183.1	7077.6	5611.1
62.5°	1290.1	1257.9	1478.1	1926.1	2663.9	3706.8	5501.6	6571.6	7659.5	7619.6	6212.3
65°	638.6	616.7	806.0	1180.7	1843.7	2835.1	4932.5	6547.1	8241.5	8267.2	6798.2
67.5°	337.3	345.1	405.6	598.7	1063.5	2003.4	4075.0	6260.0	8538.9	8683.1	6939.8
68°	310.3	312.9	360.5	498.3	923.2	1857.9	3871.6	6176.3	8562.1	8739.8	6861.3
70°	252.4	256.2	273.0	312.9	499.6	1209.0	2987.1	5465.6	8213.2	8375.4	6211.1
72.5°	200.9	212.4	222.7	239.5	293.6	634.8	1857.9	4259.2	6785.3	6803.3	4834.7
75°	153.2	162.2	182.8	197.0	229.2	348.9	884.5	2597.0	4452.3	4233.4	2848.0
77.5°	118.5	126.2	135.2	154.5	191.8	235.6	270.4	1102.1	1891.4	1556.6	804.7
80°	70.8	76.0	105.6	121.0	167.4	159.7	106.9	306.4	383.7	302.6	146.8
82.5°	41.2	45.1	60.5	92.7	117.2	86.3	63.1	95.3	94.0	82.4	48.9
85°	1.3	2.6	33.5	55.4	41.2	23.2	38.6	39.9	33.5	30.9	21.9
87.5°	0.0	1.3	9.0	7.7	9.0	5.2	7.7	10.3	12.9	11.6	9.0
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°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	903.8	875.5	812.4	764.8	713.3	682.4	651.5	632.2	621.9	615.4	620.6
5°	927.0	867.8	766.1	676.0	616.7	576.8	536.9	516.3	497.0	486.7	493.1
7.5°	978.5	889.7	721.0	623.2	553.6	491.8	441.6	401.7	378.5	357.9	361.8
10°	1041.6	902.6	722.3	592.3	491.8	394.0	323.2	273.0	244.6	226.6	225.3
12.5°	1106.0	952.8	727.5	561.4	415.9	296.1	212.4	175.1	158.4	149.4	149.4
15°	1203.8	997.8	714.6	504.7	315.4	193.1	145.5	132.6	126.2	118.5	119.7
17.5°	1288.8	1069.9	708.1	419.7	216.3	139.1	121.0	106.9	100.4	92.7	92.7
20°	1403.4	1115.0	673.4	324.5	149.4	115.9	97.9	85.0	74.7	68.2	69.5
22.5°	1507.7	1149.8	611.6	221.5	114.6	91.4	72.1	59.2	50.2	42.5	43.8
25°	1621.0	1184.5	521.5	136.5	81.1	56.7	38.6	28.3	19.3	14.2	14.2
27.5°	1702.1	1194.8	404.3	81.1	48.9	25.8	9.0	1.3	0.0	0.0	0.0
30°	1784.5	1198.7	279.4	43.8	19.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1878.5	1197.4	175.1	23.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	1950.6	1175.5	83.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2060.1	1143.3	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2184.9	1085.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2297.0	1026.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2424.4	952.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2648.5	921.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2940.7	897.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3121.0	825.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3215.0	750.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3354.0	714.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3560.0	717.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3881.9	753.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4059.6	717.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3908.9	574.2	24.5	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	3778.9	527.9	24.5	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3123.6	343.8	23.2	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2275.1	190.6	19.3	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1323.6	95.3	14.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	345.1	47.6	11.6	6.4	3.9	1.3	0.0	0.0	0.0	0.0	0.0
80°	68.2	30.9	10.3	7.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	21.9	10.3	7.7	6.4	3.9	1.3	0.0	0.0	0.0	0.0
85°	16.7	10.3	10.3	7.7	7.7	5.2	2.6	0.0	0.0	0.0	0.0
87.5°	7.7	3.9	3.9	3.9	3.9	2.6	1.3	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)