

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: P482208

Luminaire Tested: **IFLD-S-SA2B-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

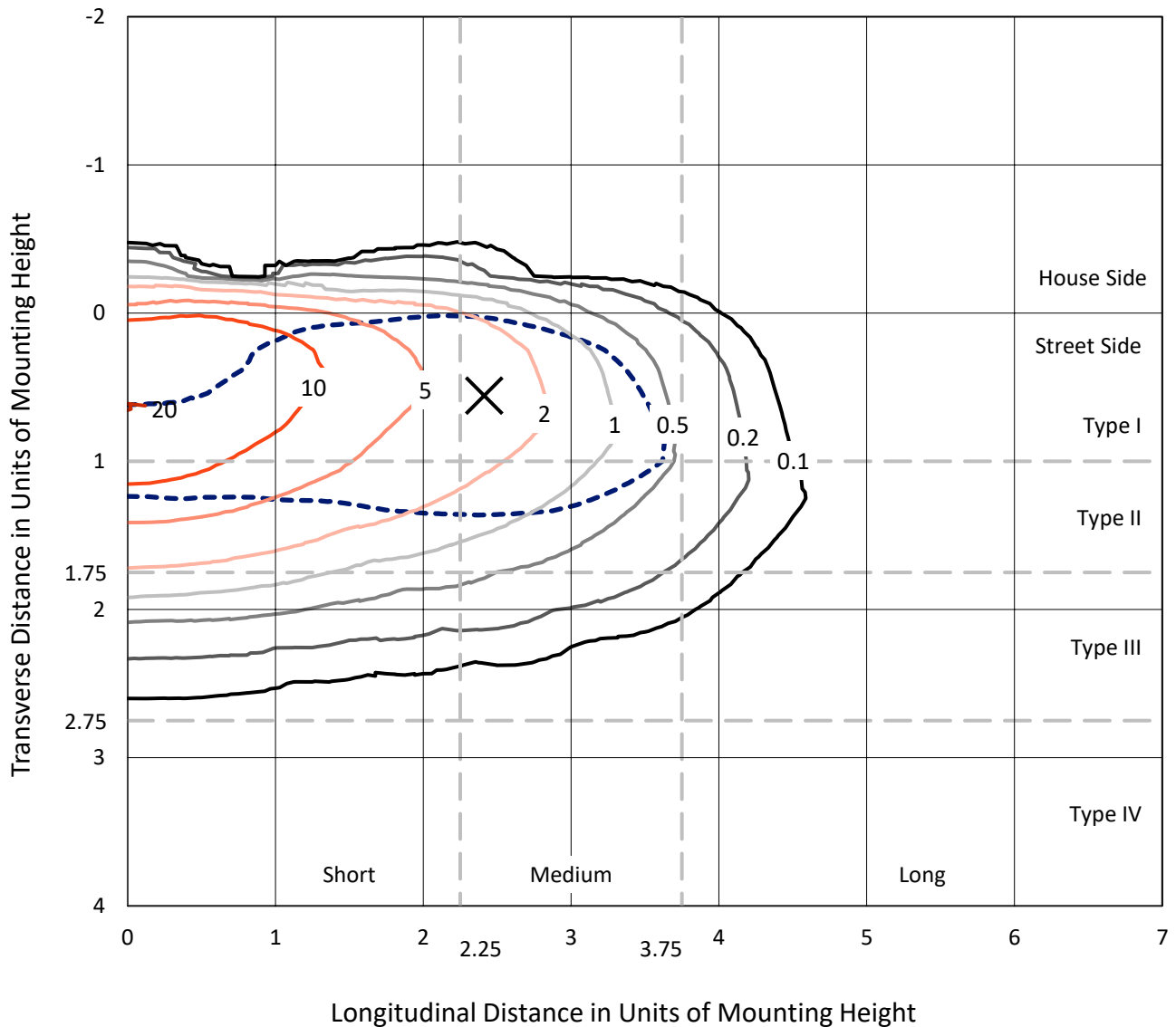
Lumens per Lamp: N/A
Luminaire Lumens: 7132.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

Input Watts (W): 82.4
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

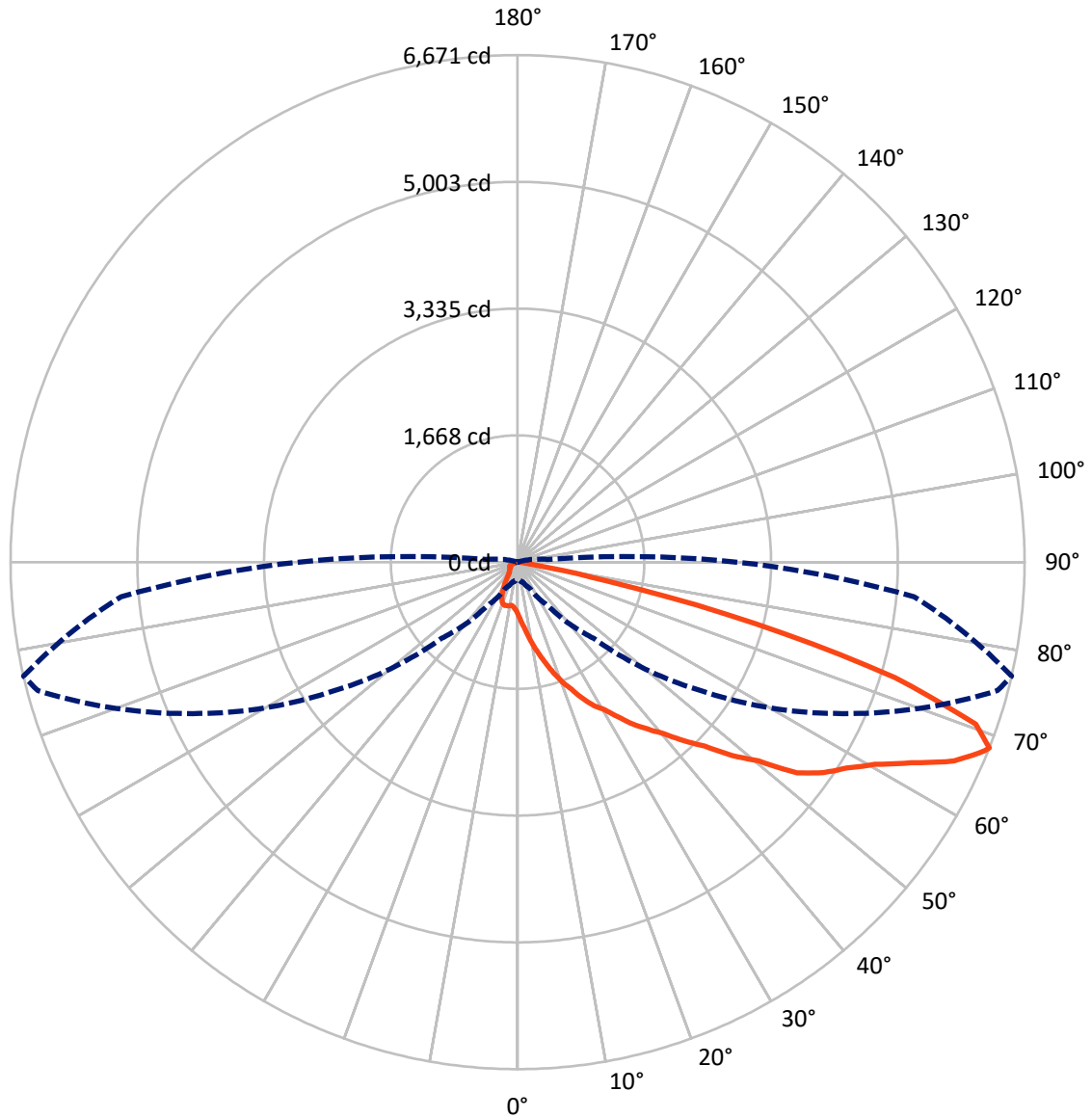
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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	323.5	0.0	323.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	6809.5	0.0	6809.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	7132.9	0.0	7132.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.1
10°-20°	294.3	4.1
20°-30°	570.3	8.0
30°-40°	994.3	13.9
40°-50°	1456.2	20.4
50°-60°	1710.8	24.0
60°-70°	1444.6	20.3
70°-80°	560.0	7.9
80°-90°	22.8	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°	7132.9	100.0
0°-180°	7132.9	100.0

Coefficient of Utilization



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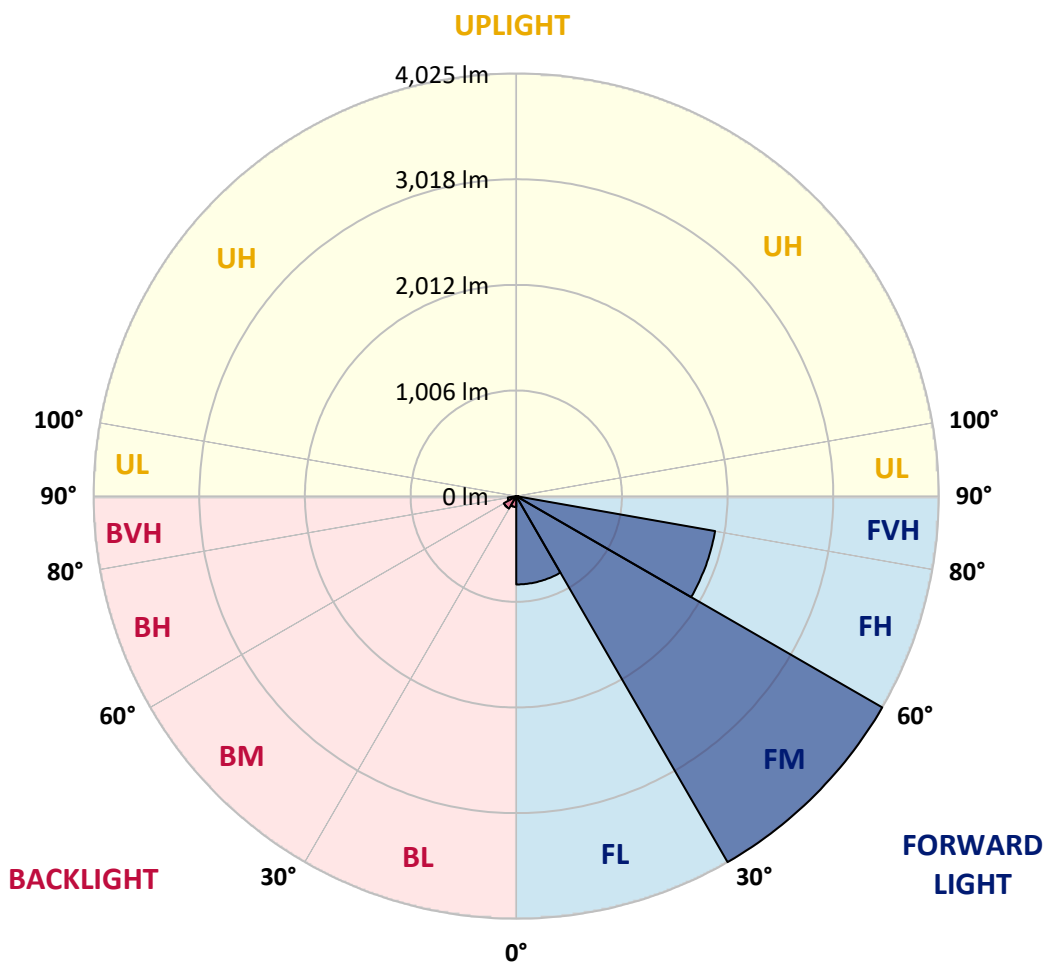
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.0	11.8			
FM (30°-60°)	4024.5	56.4			
FH (60°-80°)	1922.9	27.0			G2/5000
FVH (80°-90°)	21.0	0.3			G1/100
BL (0°-30°)	103.3	1.4	B0/110		
BM (30°-60°)	136.7	1.9	B0/220		
BH (60°-80°)	81.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
2.5°	1037.7	1018.1	997.5	991.6	953.2	910.0	869.7	830.4	764.6	765.5	720.3
5°	1337.5	1312.9	1296.2	1292.3	1232.3	1157.6	1096.7	985.7	876.6	852.0	769.5
7.5°	1584.1	1576.3	1551.7	1531.1	1486.8	1395.5	1323.7	1164.5	998.4	970.9	829.4
10°	1733.5	1745.3	1756.1	1729.6	1695.2	1629.3	1531.1	1359.1	1137.0	1102.6	907.0
12.5°	1892.7	1873.1	1879.9	1901.6	1856.3	1841.6	1719.8	1559.6	1299.2	1233.3	1005.3
15°	1934.0	1941.8	1958.6	2021.4	2051.9	2009.7	1904.5	1721.7	1467.2	1375.8	1096.7
17.5°	1961.5	1957.6	1978.2	2072.5	2118.7	2159.0	2093.2	1902.5	1613.6	1532.1	1210.7
20°	1995.9	1974.3	2019.5	2079.4	2186.5	2271.1	2268.1	2084.3	1766.9	1680.4	1323.7
22.5°	2123.6	2106.9	2143.3	2149.2	2223.9	2341.8	2370.3	2232.7	1924.2	1818.0	1445.6
25°	2359.5	2390.0	2346.7	2309.4	2332.0	2409.6	2430.3	2364.4	2082.4	1985.1	1567.4
27.5°	2704.4	2700.5	2615.0	2566.9	2512.8	2503.0	2517.7	2487.3	2207.2	2137.4	1667.7
30°	3074.9	3042.5	2963.9	2847.9	2729.0	2655.3	2634.7	2603.2	2353.6	2252.4	1766.9
32.5°	3369.7	3387.4	3300.0	3148.6	2951.1	2851.8	2752.6	2718.2	2514.8	2425.3	1880.9
35°	3641.0	3617.4	3547.6	3419.9	3243.0	3082.8	2927.5	2853.8	2708.4	2619.9	2006.7
37.5°	3841.4	3870.9	3738.3	3616.4	3440.5	3307.8	3155.5	2994.3	2907.9	2789.9	2160.0
40°	4031.1	3984.9	3895.5	3783.5	3620.3	3519.1	3418.9	3167.3	3120.1	2967.8	2333.0
42.5°	3997.7	4000.6	3951.5	3861.1	3743.2	3685.2	3650.8	3377.6	3312.7	3215.4	2502.0
45°	3861.1	3872.9	3889.6	3845.4	3855.2	3797.2	3889.6	3619.3	3555.5	3452.3	2696.6
47.5°	3710.7	3730.4	3726.5	3807.0	3898.4	3918.1	4149.0	3887.6	3860.1	3803.1	2965.8
50°	3461.1	3469.0	3544.7	3691.1	3815.9	4021.3	4343.6	4180.5	4222.7	4110.7	3286.2
52.5°	3034.6	3063.1	3257.7	3467.0	3718.6	4073.4	4475.3	4615.8	4722.9	4608.0	3593.8
55°	2495.1	2534.4	2726.1	3118.2	3486.7	3994.7	4595.2	4845.8	5063.0	4889.0	3780.5
57.5°	2007.7	2011.6	2183.6	2588.5	3157.5	3840.5	4656.1	4957.8	5249.7	5110.1	4008.5
60°	1530.1	1514.4	1668.7	2019.5	2603.2	3461.1	4503.8	5014.8	5482.6	5402.0	4282.7
62.5°	984.7	960.1	1128.2	1470.1	2033.2	2829.2	4199.1	5015.8	5846.2	5815.7	4741.6
65°	487.4	470.7	615.2	901.2	1407.2	2163.9	3764.8	4997.1	6290.4	6310.0	5188.7
67.5°	257.5	263.4	309.6	457.0	811.7	1529.1	3110.3	4778.0	6517.4	6627.4	5296.8
68°	236.8	238.8	275.2	380.3	704.6	1418.1	2955.0	4714.1	6535.1	6670.7	5236.9
70°	192.6	195.6	208.3	238.8	381.3	922.8	2279.9	4171.6	6268.7	6392.6	4740.6
72.5°	153.3	162.1	170.0	182.8	224.1	484.5	1418.1	3250.8	5178.9	5192.7	3690.1
75°	116.9	123.8	139.5	150.4	174.9	266.3	675.1	1982.1	3398.2	3231.2	2173.8
77.5°	90.4	96.3	103.2	117.9	146.4	179.8	206.4	841.2	1443.6	1188.1	614.2
80°	54.0	58.0	80.6	92.4	127.8	121.9	81.6	233.9	292.8	230.9	112.0
82.5°	31.4	34.4	46.2	70.8	89.4	65.8	48.2	72.7	71.7	62.9	37.3
85°	1.0	2.0	25.6	42.3	31.4	17.7	29.5	30.5	25.6	23.6	16.7
87.5°	0.0	1.0	6.9	5.9	6.9	3.9	5.9	7.9	9.8	8.8	6.9
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°	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0	683.0
2.5°	689.9	668.2	620.1	583.7	544.4	520.8	497.3	482.5	474.7	469.7	473.7
5°	707.6	662.4	584.7	515.9	470.7	440.3	409.8	394.1	379.3	371.5	376.4
7.5°	746.9	679.1	550.3	475.6	422.6	375.4	337.1	306.6	288.9	273.2	276.1
10°	795.0	688.9	551.3	452.0	375.4	300.7	246.7	208.3	186.7	173.0	172.0
12.5°	844.2	727.2	555.2	428.5	317.4	226.0	162.1	133.6	120.9	114.0	114.0
15°	918.8	761.6	545.4	385.2	240.8	147.4	111.0	101.2	96.3	90.4	91.4
17.5°	983.7	816.6	540.5	320.4	165.1	106.1	92.4	81.6	76.7	70.8	70.8
20°	1071.2	851.0	514.0	247.6	114.0	88.4	74.7	64.9	57.0	52.1	53.1
22.5°	1150.8	877.6	466.8	169.0	87.5	69.8	55.0	45.2	38.3	32.4	33.4
25°	1237.2	904.1	398.0	104.2	61.9	43.2	29.5	21.6	14.7	10.8	10.8
27.5°	1299.2	912.0	308.6	61.9	37.3	19.7	6.9	1.0	0.0	0.0	0.0
30°	1362.0	914.9	213.2	33.4	14.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1433.8	913.9	133.6	17.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1488.8	897.2	63.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1572.3	872.7	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1667.7	828.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1753.2	783.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1850.5	727.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2021.4	703.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2244.5	685.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2382.1	629.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2453.8	572.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2560.0	545.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2717.2	547.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2962.9	574.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3098.5	547.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2983.5	438.3	18.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	2884.3	402.9	18.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2384.1	262.4	17.7	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1736.5	145.4	14.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1010.2	72.7	10.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	263.4	36.4	8.8	4.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
80°	52.1	23.6	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	16.7	7.9	5.9	4.9	2.9	1.0	0.0	0.0	0.0	0.0
85°	12.8	7.9	7.9	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.9	2.9	2.9	2.9	2.0	1.0	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)