

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: P482013

Luminaire Tested: **IFLD-S-SA2B-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482013
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8853.8 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

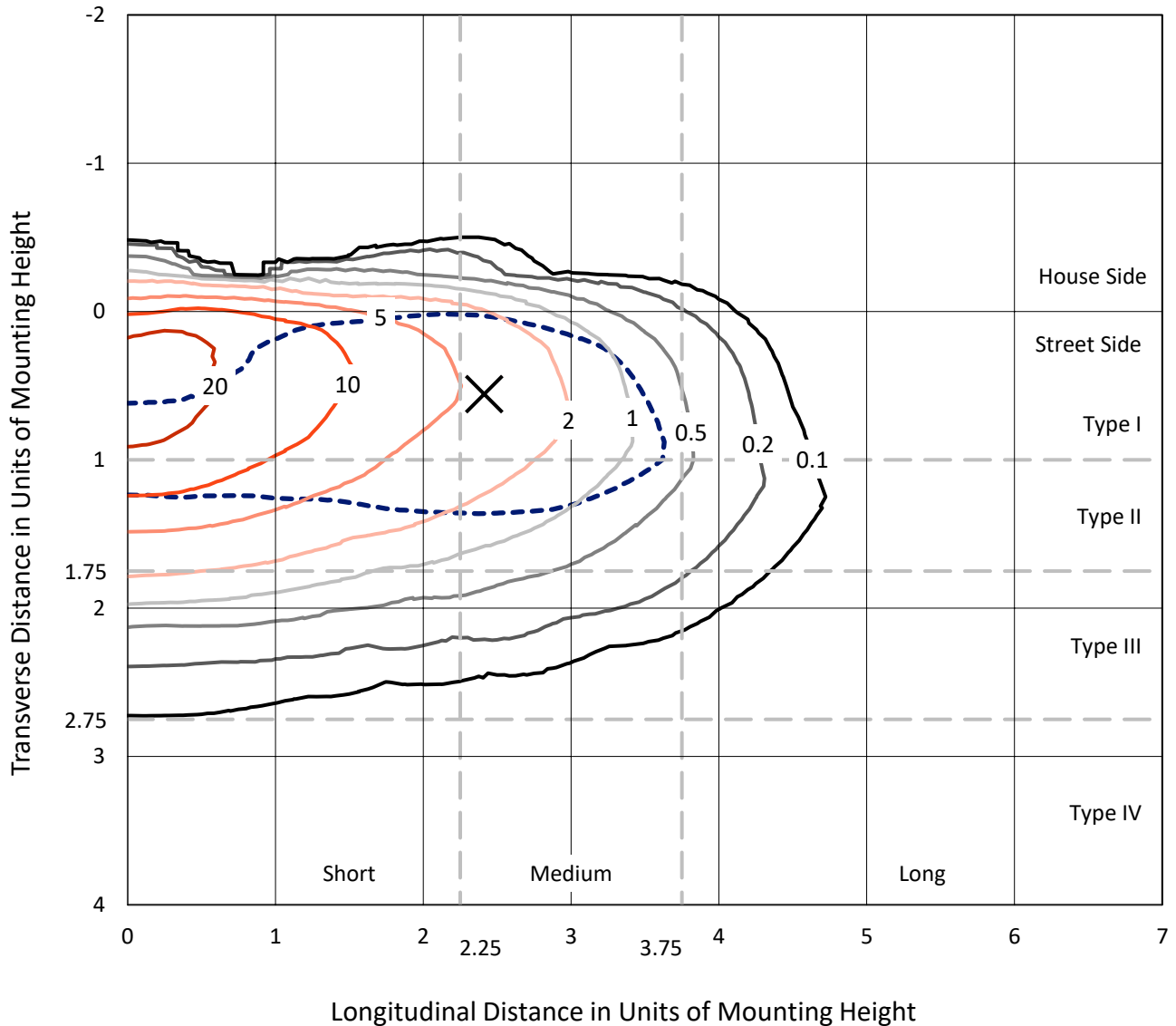
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

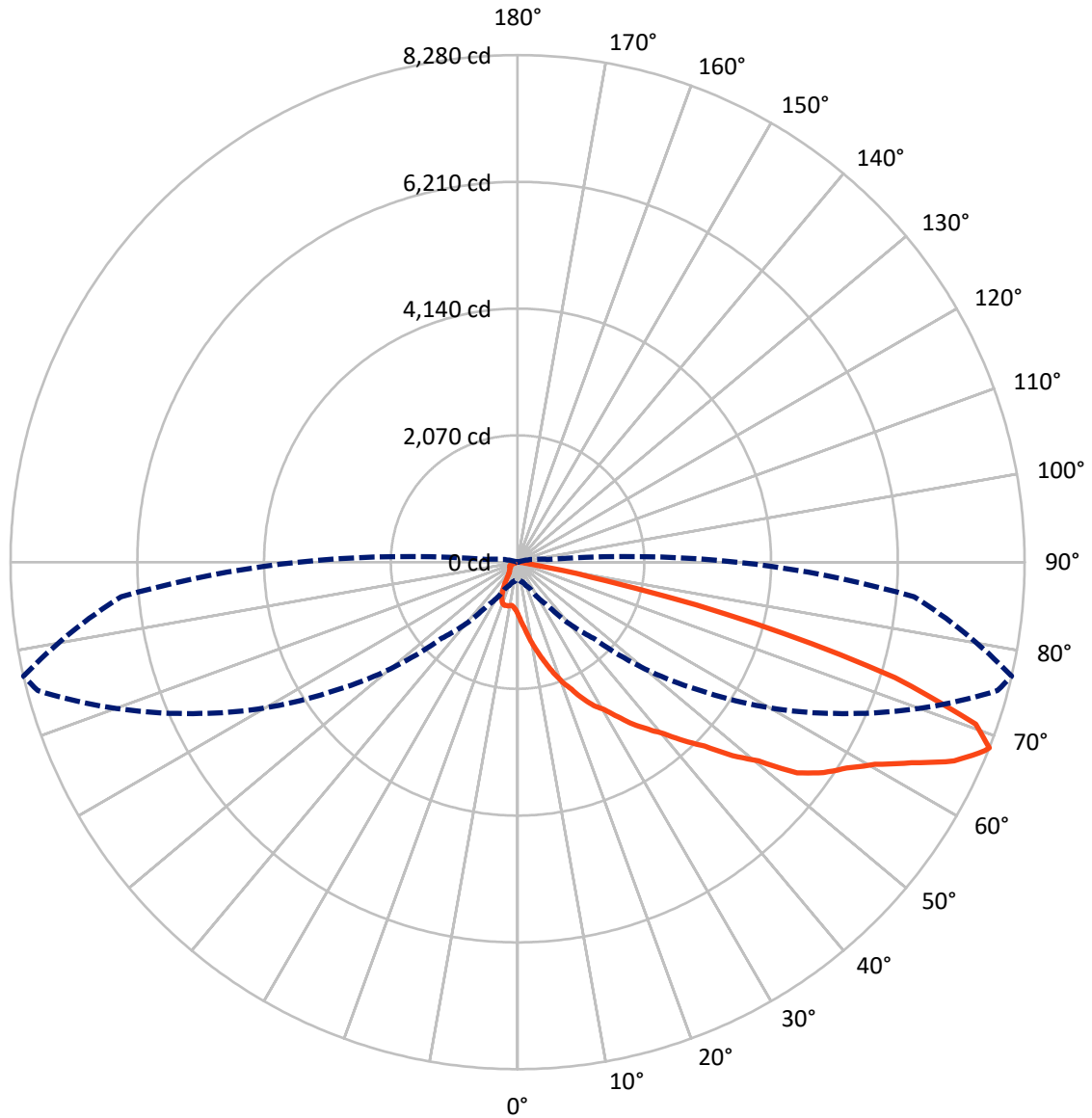
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 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	401.5	0.0	401.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8452.2	0.0	8452.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	8853.8	0.0	8853.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.1
10°-20°	365.3	4.1
20°-30°	707.9	8.0
30°-40°	1234.1	13.9
40°-50°	1807.5	20.4
50°-60°	2123.5	24.0
60°-70°	1793.1	20.3
70°-80°	695.1	7.9
80°-90°	28.3	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°	8853.8	100.0
0°-180°	8853.8	100.0

Coefficient of Utilization



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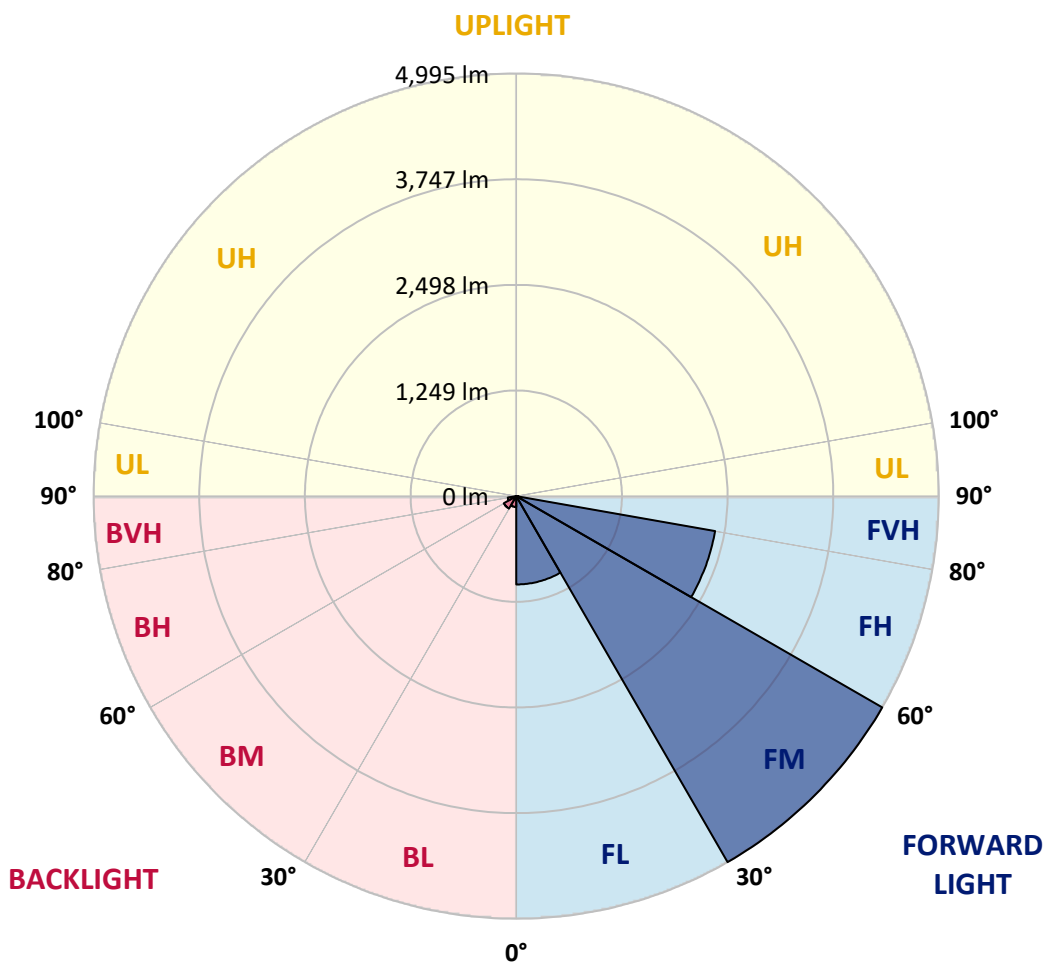
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	11.8			
FM (30°-60°)	4995.4	56.4			
FH (60°-80°)	2386.8	27.0			G2/5000
FVH (80°-90°)	26.1	0.3			G1/100
BL (0°-30°)	128.3	1.4	B1/500		
BM (30°-60°)	169.7	1.9	B0/220		
BH (60°-80°)	101.4	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°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8
2.5°	1288.1	1263.7	1238.1	1230.8	1183.2	1129.5	1079.5	1030.7	949.0	950.2	894.1
5°	1660.1	1629.7	1608.9	1604.0	1529.6	1436.9	1361.3	1223.5	1088.1	1057.6	955.1
7.5°	1966.3	1956.6	1926.1	1900.4	1845.6	1732.1	1643.1	1445.5	1239.3	1205.2	1029.5
10°	2151.7	2166.4	2179.8	2146.8	2104.2	2022.4	1900.4	1687.0	1411.3	1368.6	1125.9
12.5°	2349.3	2324.9	2333.5	2360.3	2304.2	2285.9	2134.6	1935.8	1612.6	1530.8	1247.9
15°	2400.6	2410.3	2431.1	2509.1	2546.9	2494.5	2364.0	2137.1	1821.2	1707.7	1361.3
17.5°	2434.7	2429.8	2455.5	2572.6	2629.9	2679.9	2598.2	2361.5	2002.9	1901.7	1502.8
20°	2477.4	2450.6	2506.7	2581.1	2714.1	2819.0	2815.3	2587.2	2193.2	2085.9	1643.1
22.5°	2636.0	2615.2	2660.4	2667.7	2760.4	2906.8	2942.2	2771.4	2388.4	2256.6	1794.3
25°	2928.7	2966.6	2912.9	2866.5	2894.6	2990.9	3016.6	2934.8	2584.8	2464.0	1945.6
27.5°	3356.9	3352.0	3245.9	3186.1	3119.0	3106.8	3125.1	3087.3	2739.7	2653.1	2070.0
30°	3816.8	3776.5	3678.9	3535.0	3387.4	3295.9	3270.3	3231.2	2921.4	2795.8	2193.2
32.5°	4182.7	4204.6	4096.1	3908.2	3663.1	3539.9	3416.7	3374.0	3121.5	3010.5	2334.7
35°	4519.4	4490.1	4403.5	4244.9	4025.3	3826.5	3633.8	3542.3	3361.8	3252.0	2490.8
37.5°	4768.2	4804.8	4640.1	4488.9	4270.5	4105.8	3916.8	3716.7	3609.4	3463.0	2681.1
40°	5003.6	4946.3	4835.3	4696.2	4493.7	4368.1	4243.7	3931.4	3872.9	3683.8	2895.8
42.5°	4962.1	4965.8	4904.8	4792.6	4646.2	4574.2	4531.6	4192.4	4111.9	3991.2	3105.6
45°	4792.6	4807.2	4828.0	4773.1	4785.3	4713.3	4828.0	4492.5	4413.2	4285.2	3347.1
47.5°	4606.0	4630.4	4625.5	4725.5	4838.9	4863.3	5150.0	4825.5	4791.4	4720.6	3681.4
50°	4296.1	4305.9	4399.8	4581.6	4736.5	4991.4	5391.5	5189.0	5241.5	5102.4	4079.0
52.5°	3766.7	3802.1	4043.6	4303.5	4615.7	5056.1	5555.0	5729.4	5862.4	5719.6	4460.8
55°	3097.1	3145.9	3383.7	3870.4	4327.8	4958.5	5703.8	6014.8	6284.4	6068.5	4692.6
57.5°	2492.0	2496.9	2710.4	3213.0	3919.2	4767.0	5779.4	6153.9	6516.2	6343.0	4975.6
60°	1899.2	1879.7	2071.2	2506.7	3231.2	4296.1	5590.3	6224.6	6805.3	6705.2	5315.9
62.5°	1222.2	1191.7	1400.3	1824.8	2523.8	3511.8	5212.2	6225.9	7256.6	7218.8	5885.5
65°	605.0	584.3	763.6	1118.6	1746.8	2686.0	4673.1	6202.7	7807.9	7832.3	6440.5
67.5°	319.6	326.9	384.2	567.2	1007.6	1898.0	3860.7	5930.7	8089.7	8226.3	6574.7
68°	294.0	296.4	341.5	472.1	874.6	1760.2	3667.9	5851.4	8111.7	8280.0	6500.3
70°	239.1	242.7	258.6	296.4	473.3	1145.4	2829.9	5178.0	7781.1	7934.8	5884.3
72.5°	190.3	201.3	211.0	226.9	278.1	601.4	1760.2	4035.1	6428.3	6445.4	4580.3
75°	145.2	153.7	173.2	186.6	217.1	330.6	838.0	2460.3	4218.1	4010.7	2698.2
77.5°	112.2	119.5	128.1	146.4	181.8	223.2	256.2	1044.1	1791.9	1474.7	762.4
80°	67.1	72.0	100.0	114.7	158.6	151.3	101.2	290.3	363.5	286.7	139.1
82.5°	39.0	42.7	57.3	87.8	111.0	81.7	59.8	90.3	89.0	78.1	46.4
85°	1.2	2.4	31.7	52.5	39.0	22.0	36.6	37.8	31.7	29.3	20.7
87.5°	0.0	1.2	8.5	7.3	8.5	4.9	7.3	9.8	12.2	11.0	8.5
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°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8
2.5°	856.3	829.5	769.7	724.6	675.8	646.5	617.2	598.9	589.2	583.1	587.9
5°	878.3	822.1	725.8	640.4	584.3	546.5	508.7	489.1	470.8	461.1	467.2
7.5°	927.0	842.9	683.1	590.4	524.5	466.0	418.4	380.6	358.6	339.1	342.8
10°	986.8	855.1	684.3	561.1	466.0	373.3	306.2	258.6	231.8	214.7	213.5
12.5°	1047.8	902.7	689.2	531.8	394.0	280.6	201.3	165.9	150.0	141.5	141.5
15°	1140.5	945.3	677.0	478.2	298.9	183.0	137.8	125.6	119.5	112.2	113.4
17.5°	1221.0	1013.7	670.9	397.7	204.9	131.7	114.7	101.2	95.1	87.8	87.8
20°	1329.6	1056.3	638.0	307.4	141.5	109.8	92.7	80.5	70.7	64.6	65.9
22.5°	1428.4	1089.3	579.4	209.8	108.6	86.6	68.3	56.1	47.6	40.3	41.5
25°	1535.7	1122.2	494.0	129.3	76.8	53.7	36.6	26.8	18.3	13.4	13.4
27.5°	1612.6	1132.0	383.0	76.8	46.4	24.4	8.5	1.2	0.0	0.0	0.0
30°	1690.6	1135.6	264.7	41.5	18.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1779.7	1134.4	165.9	22.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1848.0	1113.7	79.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1951.7	1083.2	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2070.0	1028.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2176.1	972.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2296.9	902.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2509.1	873.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2786.0	850.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2956.8	781.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3045.8	711.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3177.6	677.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3372.7	679.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3677.7	713.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3846.0	679.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3703.3	544.0	23.2	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3580.1	500.1	23.2	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	2959.2	325.7	22.0	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2155.4	180.5	18.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	1254.0	90.3	13.4	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	326.9	45.1	11.0	6.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	64.6	29.3	9.8	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	30.5	20.7	9.8	7.3	6.1	3.7	1.2	0.0	0.0	0.0	0.0
85°	15.9	9.8	9.8	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	3.7	3.7	3.7	2.4	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)