

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: P482052

Luminaire Tested: **IFLD-S-SA2B-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

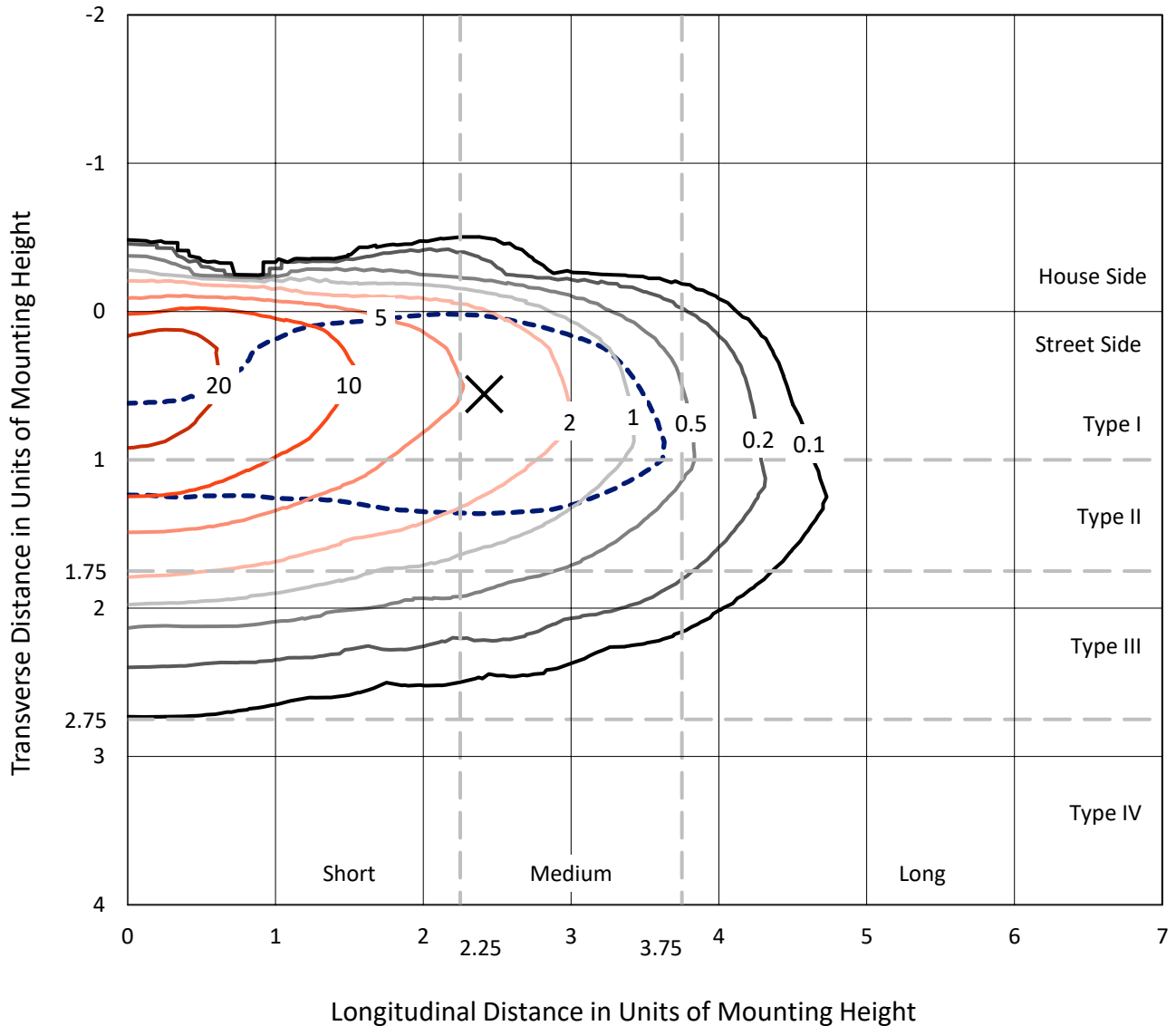
Lumens per Lamp: N/A
Luminaire Lumens: 8976.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

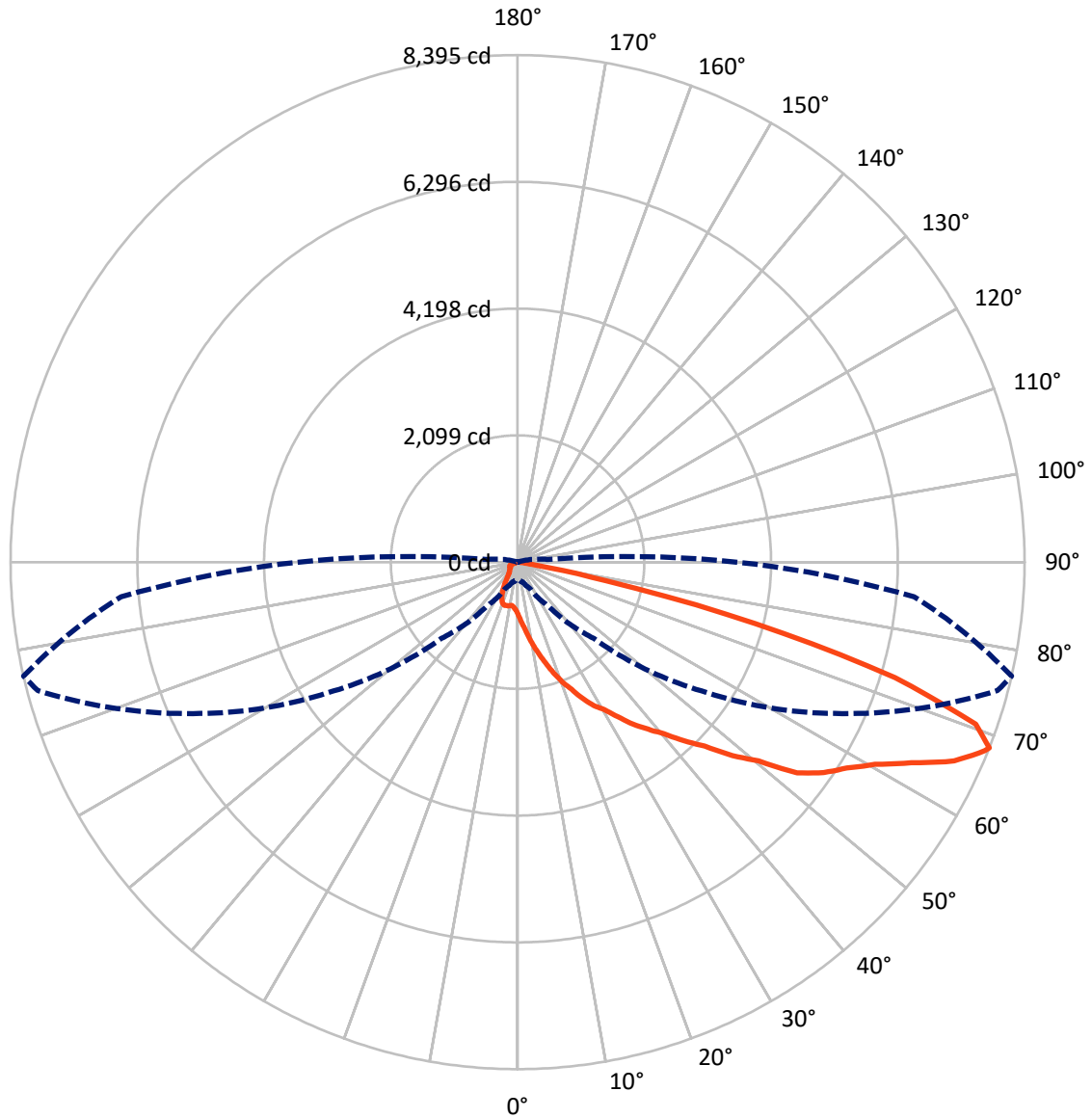
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 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	407.1	0.0	407.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8569.7	0.0	8569.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	8976.7	0.0	8976.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.1
10°-20°	370.3	4.1
20°-30°	717.7	8.0
30°-40°	1251.3	13.9
40°-50°	1832.6	20.4
50°-60°	2153.0	24.0
60°-70°	1818.0	20.3
70°-80°	704.7	7.9
80°-90°	28.7	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°	8976.7	100.0
0°-180°	8976.7	100.0

Coefficient of Utilization



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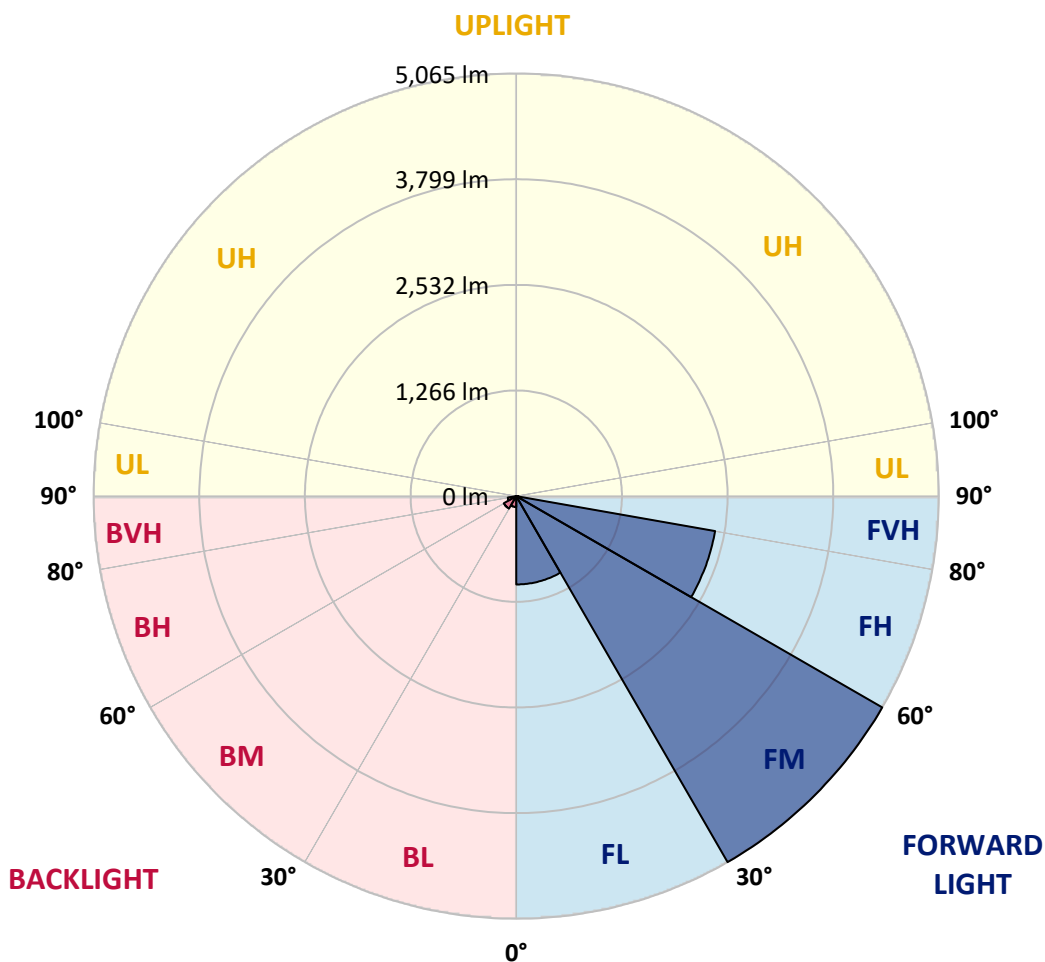
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.4	11.8			
FM (30°-60°)	5064.8	56.4			
FH (60°-80°)	2419.9	27.0			G2/5000
FVH (80°-90°)	26.4	0.3			G1/100
BL (0°-30°)	130.1	1.4	B1/500		
BM (30°-60°)	172.0	1.9	B0/220		
BH (60°-80°)	102.8	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°	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5
2.5°	1306.0	1281.3	1255.3	1247.9	1199.6	1145.2	1094.5	1045.0	962.2	963.4	906.5
5°	1683.2	1652.3	1631.3	1626.3	1550.9	1456.9	1380.2	1240.5	1103.2	1072.3	968.4
7.5°	1993.6	1983.7	1952.8	1926.8	1871.2	1756.2	1665.9	1465.5	1256.5	1221.9	1043.8
10°	2181.6	2196.5	2210.1	2176.7	2133.4	2050.5	1926.8	1710.4	1430.9	1387.6	1141.5
12.5°	2382.0	2357.2	2365.9	2393.1	2336.2	2317.7	2164.3	1962.7	1635.0	1552.1	1265.2
15°	2433.9	2443.8	2464.8	2544.0	2582.3	2529.1	2396.8	2166.8	1846.5	1731.4	1380.2
17.5°	2468.5	2463.6	2489.6	2608.3	2666.4	2717.1	2634.3	2394.3	2030.7	1928.1	1523.7
20°	2511.8	2484.6	2541.5	2616.9	2751.8	2858.1	2854.4	2623.1	2223.7	2114.8	1665.9
22.5°	2672.6	2651.6	2697.3	2704.8	2798.7	2947.2	2983.0	2809.9	2421.5	2288.0	1819.2
25°	2969.4	3007.8	2953.3	2906.3	2934.8	3032.5	3058.5	2975.6	2620.7	2498.2	1972.6
27.5°	3403.5	3398.6	3291.0	3230.4	3162.4	3150.0	3168.5	3130.2	2777.7	2689.9	2098.8
30°	3869.8	3829.0	3730.0	3584.1	3434.4	3341.7	3315.7	3276.1	2962.0	2834.6	2223.7
32.5°	4240.8	4263.1	4153.0	3962.5	3713.9	3589.0	3464.1	3420.8	3164.8	3052.3	2367.1
35°	4582.1	4552.4	4464.6	4303.9	4081.3	3879.7	3684.3	3591.5	3408.5	3297.2	2525.4
37.5°	4834.4	4871.5	4704.6	4551.2	4329.8	4162.9	3971.2	3768.4	3659.5	3511.1	2718.4
40°	5073.1	5015.0	4902.4	4761.5	4556.2	4428.8	4302.6	3986.0	3926.7	3735.0	2936.0
42.5°	5031.1	5034.8	4972.9	4859.2	4710.8	4637.8	4594.5	4250.7	4169.1	4046.6	3148.7
45°	4859.2	4874.0	4895.0	4839.4	4851.7	4778.8	4895.0	4554.9	4474.5	4344.7	3393.6
47.5°	4669.9	4694.7	4689.7	4791.1	4906.2	4930.9	5221.5	4892.6	4857.9	4786.2	3732.5
50°	4355.8	4365.7	4460.9	4645.2	4802.3	5060.8	5466.4	5261.1	5314.3	5173.3	4135.7
52.5°	3819.1	3854.9	4099.8	4363.2	4679.8	5126.3	5632.1	5809.0	5943.8	5799.1	4522.8
55°	3140.1	3189.6	3430.7	3924.2	4388.0	5027.4	5783.0	6098.4	6371.7	6152.8	4757.7
57.5°	2526.7	2531.6	2748.0	3257.6	3973.7	4833.2	5859.7	6239.4	6606.7	6431.1	5044.7
60°	1925.6	1905.8	2100.0	2541.5	3276.1	4355.8	5668.0	6311.1	6899.8	6798.4	5389.7
62.5°	1239.2	1208.3	1419.8	1850.2	2558.8	3560.6	5284.6	6312.3	7357.4	7319.0	5967.3
65°	613.4	592.4	774.2	1134.1	1771.0	2723.3	4738.0	6288.8	7916.4	7941.1	6530.0
67.5°	324.0	331.4	389.6	575.1	1021.5	1924.4	3914.3	6013.0	8202.1	8340.6	6666.0
68°	298.1	300.5	346.3	478.6	886.7	1784.6	3718.9	5932.7	8224.3	8395.0	6590.6
70°	242.4	246.1	262.2	300.5	479.9	1161.3	2869.2	5250.0	7889.2	8045.0	5966.0
72.5°	192.9	204.1	214.0	230.0	282.0	609.7	1784.6	4091.1	6517.6	6534.9	4644.0
75°	147.2	155.8	175.6	189.2	220.1	335.2	849.6	2494.5	4276.7	4066.4	2735.7
77.5°	113.8	121.2	129.9	148.4	184.3	226.3	259.7	1058.7	1816.8	1495.2	773.0
80°	68.0	73.0	101.4	116.3	160.8	153.4	102.6	294.3	368.5	290.6	141.0
82.5°	39.6	43.3	58.1	89.0	112.5	82.9	60.6	91.5	90.3	79.2	47.0
85°	1.2	2.5	32.2	53.2	39.6	22.3	37.1	38.3	32.2	29.7	21.0
87.5°	0.0	1.2	8.7	7.4	8.7	4.9	7.4	9.9	12.4	11.1	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°	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5	859.5
2.5°	868.2	841.0	780.4	734.6	685.2	655.5	625.8	607.2	597.3	591.2	596.1
5°	890.5	833.6	735.9	649.3	592.4	554.1	515.7	495.9	477.4	467.5	473.7
7.5°	939.9	854.6	692.6	598.6	531.8	472.4	424.2	385.9	363.6	343.8	347.5
10°	1000.5	867.0	693.8	568.9	472.4	378.4	310.4	262.2	235.0	217.7	216.4
12.5°	1062.4	915.2	698.8	539.2	399.5	284.5	204.1	168.2	152.1	143.5	143.5
15°	1156.4	958.5	686.4	484.8	303.0	185.5	139.8	127.4	121.2	113.8	115.0
17.5°	1238.0	1027.7	680.2	403.2	207.8	133.6	116.3	102.6	96.5	89.0	89.0
20°	1348.0	1071.0	646.8	311.7	143.5	111.3	94.0	81.6	71.7	65.5	66.8
22.5°	1448.2	1104.4	587.5	212.7	110.1	87.8	69.3	56.9	48.2	40.8	42.0
25°	1557.1	1137.8	500.9	131.1	77.9	54.4	37.1	27.2	18.6	13.6	13.6
27.5°	1635.0	1147.7	388.3	77.9	47.0	24.7	8.7	1.2	0.0	0.0	0.0
30°	1714.1	1151.4	268.4	42.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1804.4	1150.2	168.2	22.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1873.7	1129.1	80.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1978.8	1098.2	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2098.8	1042.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2206.3	985.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2328.8	915.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2544.0	885.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2824.7	862.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2997.9	792.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3088.1	721.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3221.7	686.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3419.6	688.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3728.8	723.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3899.4	688.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3754.8	551.6	23.5	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3629.8	507.1	23.5	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3000.3	330.2	22.3	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2185.3	183.0	18.6	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1271.4	91.5	13.6	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	331.4	45.8	11.1	6.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	65.5	29.7	9.9	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	21.0	9.9	7.4	6.2	3.7	1.2	0.0	0.0	0.0	0.0
85°	16.1	9.9	9.9	7.4	7.4	4.9	2.5	0.0	0.0	0.0	0.0
87.5°	7.4	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)