

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: P482053

Luminaire Tested: **IFLD-S-SA2C-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

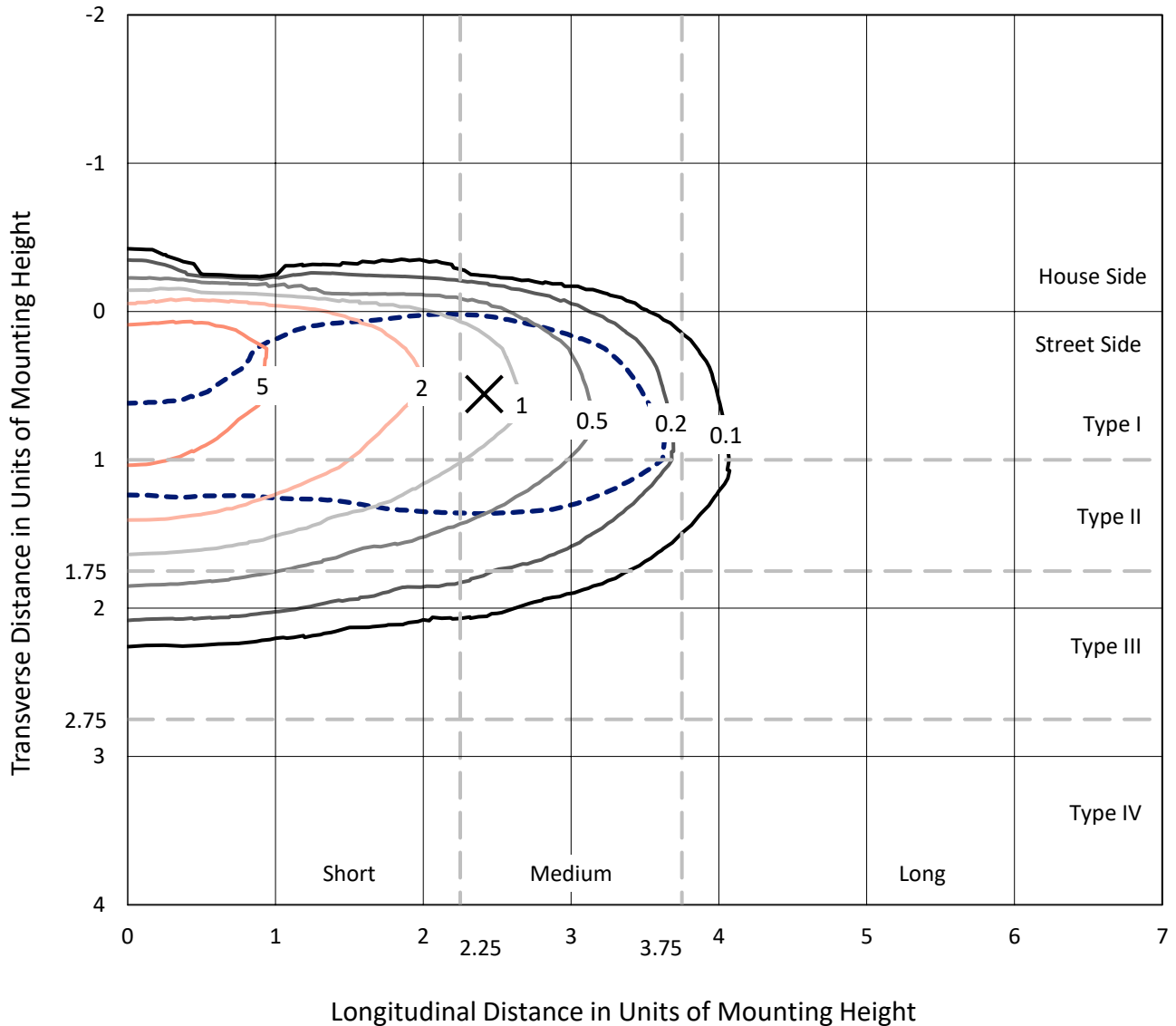
Lumens per Lamp: N/A
Luminaire Lumens: 11174.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: IFLD-S-SA2C-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

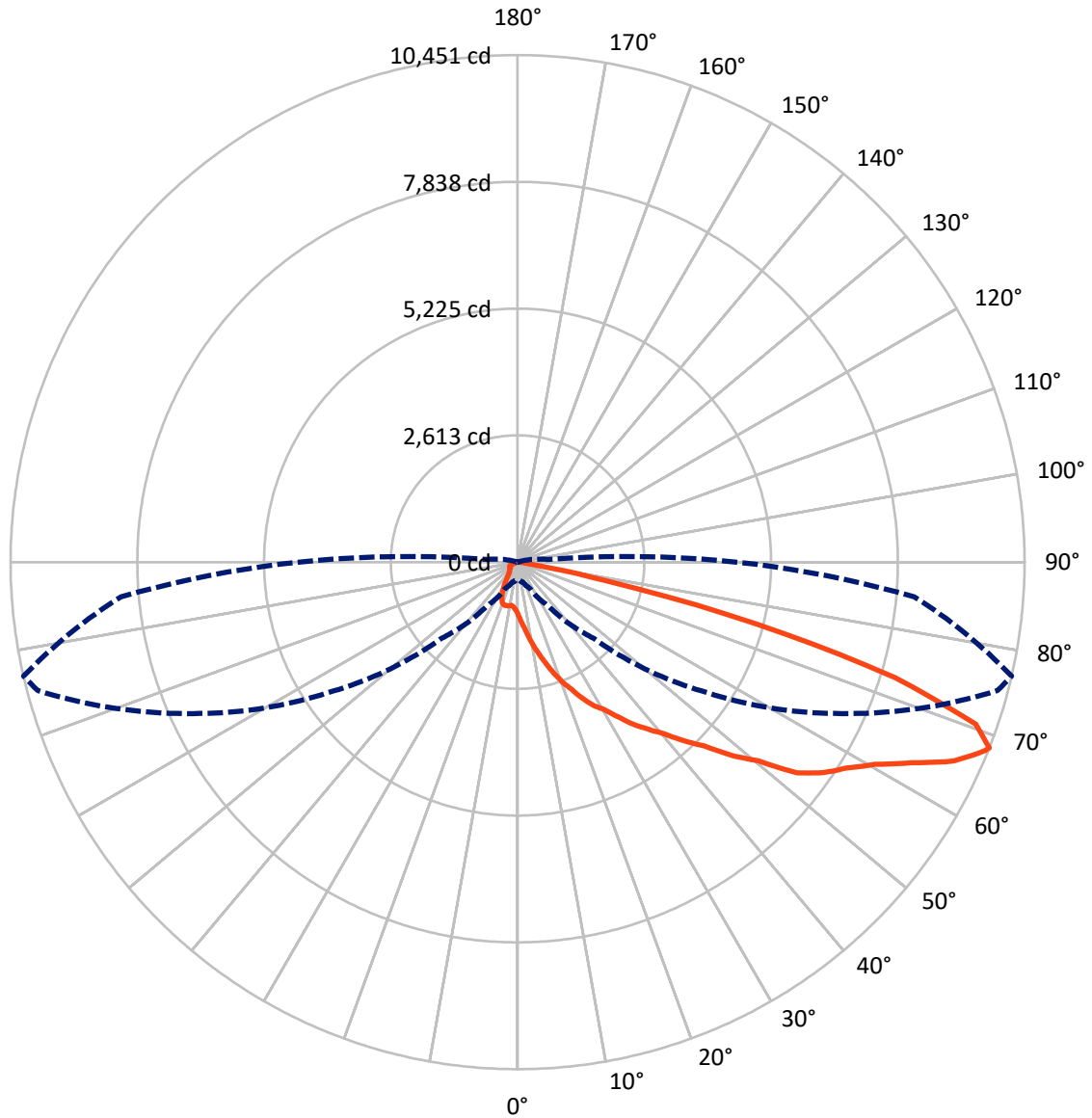
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P482053
CATALOG NUMBER: IFLD-S-SA2C-740-U-T2R-HSS

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	506.8	0.0	506.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	10667.9	0.0	10667.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	11174.7	0.0	11174.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.1
10°-20°	461.0	4.1
20°-30°	893.5	8.0
30°-40°	1557.6	13.9
40°-50°	2281.3	20.4
50°-60°	2680.2	24.0
60°-70°	2263.2	20.3
70°-80°	877.3	7.9
80°-90°	35.7	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°	11174.7	100.0
0°-180°	11174.7	100.0

Coefficient of Utilization

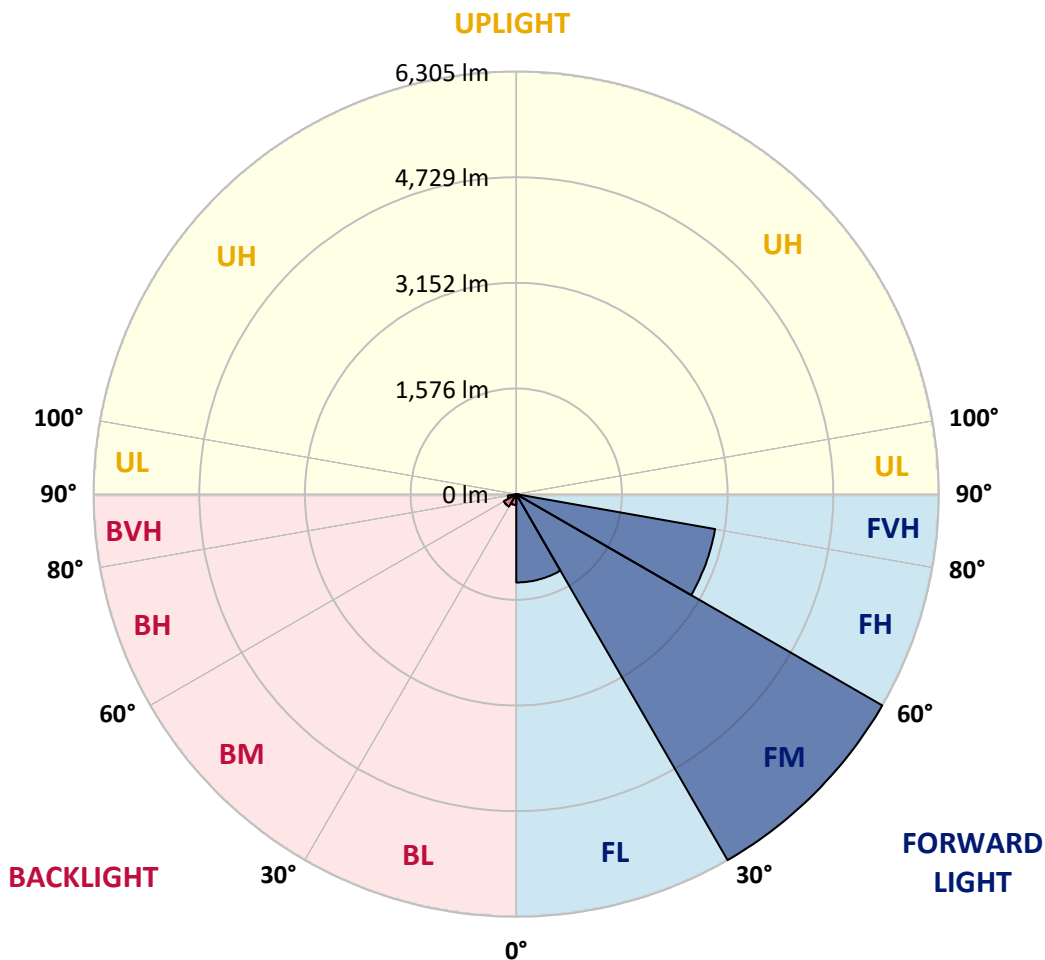


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.6	11.8			
FM (30°-60°)	6305.0	56.4			
FH (60°-80°)	3012.5	27.0			G2/5000
FVH (80°-90°)	32.9	0.3			G1/100
BL (0°-30°)	161.9	1.4	B1/500		
BM (30°-60°)	214.1	1.9	B0/220		
BH (60°-80°)	128.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CATALOG NUMBER: IFLD-S-SA2C-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1625.8	1595.0	1562.7	1553.4	1493.4	1425.6	1362.5	1300.9	1197.8	1199.3	1128.5
5°	2095.3	2056.8	2030.7	2024.5	1930.6	1813.6	1718.1	1544.2	1373.3	1334.8	1205.5
7.5°	2481.8	2469.5	2431.0	2398.6	2329.4	2186.2	2073.8	1824.4	1564.2	1521.1	1299.4
10°	2715.8	2734.3	2751.2	2709.6	2655.7	2552.6	2398.6	2129.2	1781.3	1727.4	1421.0
12.5°	2965.2	2934.4	2945.2	2979.0	2908.2	2885.1	2694.2	2443.3	2035.3	1932.1	1575.0
15°	3029.8	3042.2	3068.3	3166.9	3214.6	3148.4	2983.7	2697.3	2298.6	2155.4	1718.1
17.5°	3073.0	3066.8	3099.1	3246.9	3319.3	3382.4	3279.3	2980.6	2528.0	2400.2	1896.7
20°	3126.8	3093.0	3163.8	3257.7	3425.5	3557.9	3553.3	3265.4	2768.1	2632.6	2073.8
22.5°	3327.0	3300.8	3357.8	3367.0	3484.0	3668.8	3713.4	3497.9	3014.5	2848.2	2264.7
25°	3696.5	3744.2	3676.5	3618.0	3653.4	3775.0	3807.3	3704.2	3262.3	3109.9	2455.6
27.5°	4236.9	4230.7	4096.8	4021.3	3936.6	3921.3	3944.3	3896.6	3457.8	3348.5	2612.6
30°	4817.3	4766.5	4643.3	4461.6	4275.4	4159.9	4127.6	4078.3	3687.2	3528.7	2768.1
32.5°	5279.1	5306.9	5169.8	4932.7	4623.3	4467.8	4312.3	4258.4	3939.7	3799.6	2946.7
35°	5704.1	5667.1	5557.8	5357.7	5080.5	4829.6	4586.3	4470.9	4243.0	4104.5	3143.8
37.5°	6018.1	6064.3	5856.5	5665.6	5390.0	5182.2	4943.5	4691.0	4555.6	4370.8	3383.9
40°	6315.3	6242.9	6102.8	5927.3	5671.7	5513.2	5356.1	4962.0	4888.1	4649.5	3654.9
42.5°	6262.9	6267.5	6190.6	6048.9	5864.2	5773.3	5719.5	5291.5	5189.8	5037.4	3919.7
45°	6048.9	6067.4	6093.6	6024.3	6039.7	5948.9	6093.6	5670.2	5570.1	5408.5	4224.5
47.5°	5813.4	5844.2	5838.0	5964.2	6107.4	6138.2	6500.0	6090.5	6047.4	5958.1	4646.4
50°	5422.3	5434.6	5553.2	5782.6	5978.1	6299.9	6804.8	6549.3	6615.5	6440.0	5148.3
52.5°	4754.2	4798.8	5103.6	5431.6	5825.7	6381.5	7011.1	7231.3	7399.1	7219.0	5630.2
55°	3908.9	3970.5	4270.7	4885.0	5462.4	6258.3	7199.0	7591.6	7931.8	7659.3	5922.7
57.5°	3145.3	3151.5	3420.9	4055.2	4946.6	6016.6	7294.4	7767.1	8224.3	8005.7	6279.9
60°	2397.1	2372.5	2614.2	3163.8	4078.3	5422.3	7055.8	7856.4	8589.2	8462.9	6709.4
62.5°	1542.6	1504.1	1767.4	2303.2	3185.3	4432.4	6578.5	7857.9	9158.8	9111.1	7428.4
65°	763.6	737.4	963.8	1411.8	2204.6	3390.1	5898.0	7828.7	9854.7	9885.5	8128.9
67.5°	403.4	412.6	485.0	715.9	1271.7	2395.6	4872.7	7485.3	10210.3	10382.8	8298.2
68°	371.0	374.1	431.1	595.8	1103.9	2221.6	4629.5	7385.3	10238.1	10450.5	8204.3
70°	301.8	306.4	326.4	374.1	597.3	1445.6	3571.8	6535.4	9820.8	10014.8	7426.8
72.5°	240.2	254.0	266.3	286.4	351.0	759.0	2221.6	5092.9	8113.5	8135.0	5781.0
75°	183.2	194.0	218.6	235.6	274.0	417.2	1057.7	3105.3	5323.8	5062.1	3405.5
77.5°	141.6	150.9	161.7	184.7	229.4	281.7	323.3	1317.9	2261.6	1861.3	962.2
80°	84.7	90.8	126.2	144.7	200.1	190.9	127.8	366.4	458.8	361.8	175.5
82.5°	49.3	53.9	72.4	110.8	140.1	103.2	75.4	113.9	112.4	98.5	58.5
85°	1.5	3.1	40.0	66.2	49.3	27.7	46.2	47.7	40.0	36.9	26.2
87.5°	0.0	1.5	10.8	9.2	10.8	6.2	9.2	12.3	15.4	13.9	10.8
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°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1080.8	1046.9	971.5	914.5	852.9	816.0	779.0	755.9	743.6	735.9	742.1
5°	1108.5	1037.7	916.0	808.3	737.4	689.7	642.0	617.4	594.3	582.0	589.7
7.5°	1170.1	1063.8	862.2	745.1	662.0	588.1	528.1	480.3	452.6	428.0	432.6
10°	1245.5	1079.2	863.7	708.2	588.1	471.1	386.4	326.4	292.5	271.0	269.4
12.5°	1322.5	1139.3	869.9	671.2	497.3	354.1	254.0	209.4	189.4	178.6	178.6
15°	1439.5	1193.2	854.5	603.5	377.2	230.9	174.0	158.6	150.9	141.6	143.2
17.5°	1541.1	1279.4	846.8	501.9	258.6	166.3	144.7	127.8	120.1	110.8	110.8
20°	1678.1	1333.3	805.2	388.0	178.6	138.6	117.0	101.6	89.3	81.6	83.1
22.5°	1802.8	1374.8	731.3	264.8	137.0	109.3	86.2	70.8	60.0	50.8	52.3
25°	1938.3	1416.4	623.5	163.2	97.0	67.7	46.2	33.9	23.1	16.9	16.9
27.5°	2035.3	1428.7	483.4	97.0	58.5	30.8	10.8	1.5	0.0	0.0	0.0
30°	2133.8	1433.3	334.1	52.3	23.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2246.2	1431.8	209.4	27.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2332.4	1405.6	100.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2463.3	1367.1	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2612.6	1297.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2746.6	1227.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2899.0	1139.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3166.9	1102.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3516.4	1073.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3731.9	986.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3844.3	897.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4010.5	854.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4256.9	857.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4641.8	900.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4854.2	857.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4674.1	686.6	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4518.6	631.2	29.3	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3735.0	411.1	27.7	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2720.4	227.9	23.1	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1582.7	113.9	16.9	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	412.6	57.0	13.9	7.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0
80°	81.6	36.9	12.3	9.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	26.2	12.3	9.2	7.7	4.6	1.5	0.0	0.0	0.0	0.0
85°	20.0	12.3	12.3	9.2	9.2	6.2	3.1	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	4.6	4.6	4.6	3.1	1.5	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)