

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: P481975

Luminaire Tested: **IFLD-S-SA2C-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481975
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

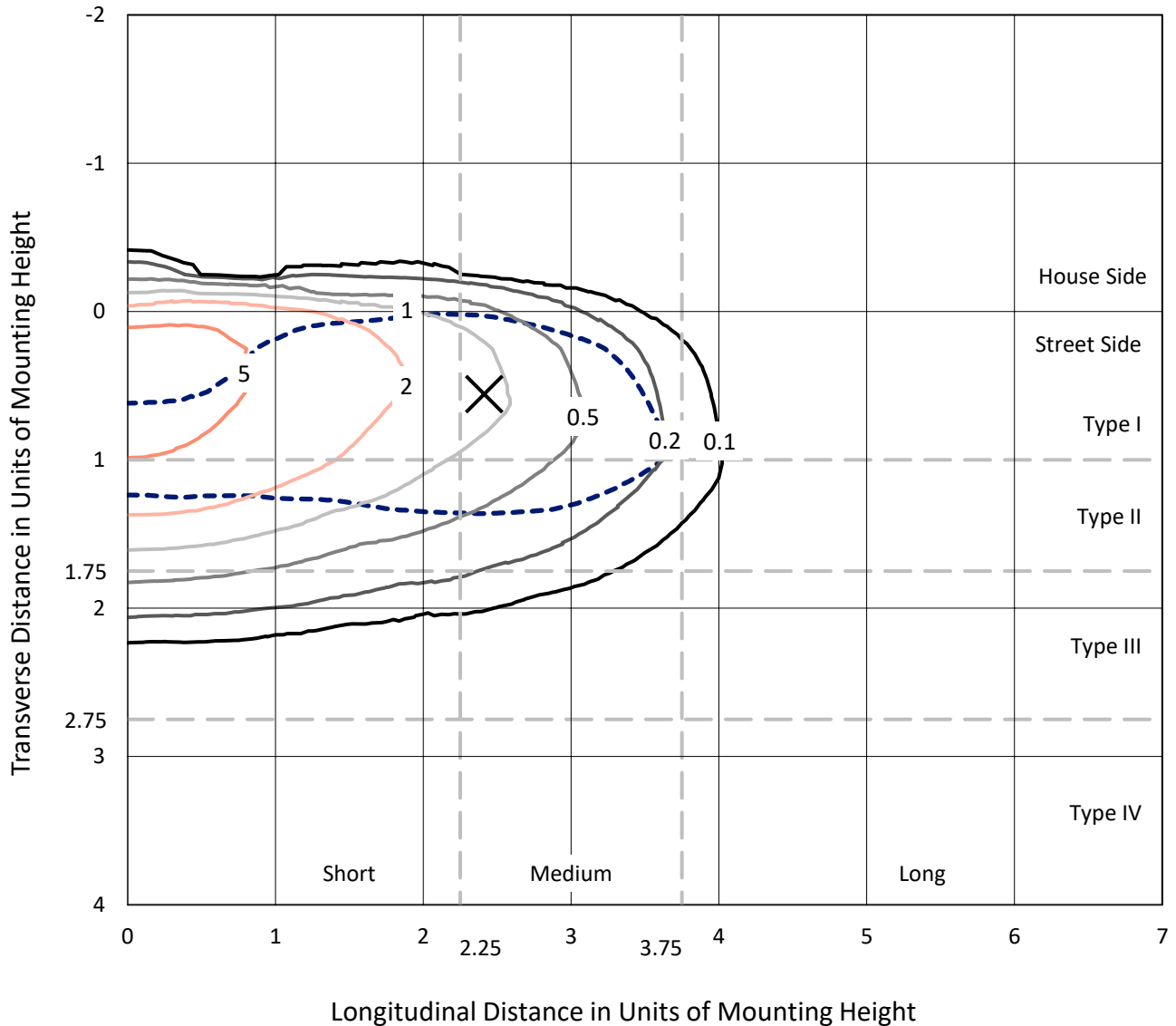
Lumens per Lamp: N/A
Luminaire Lumens: 10175.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

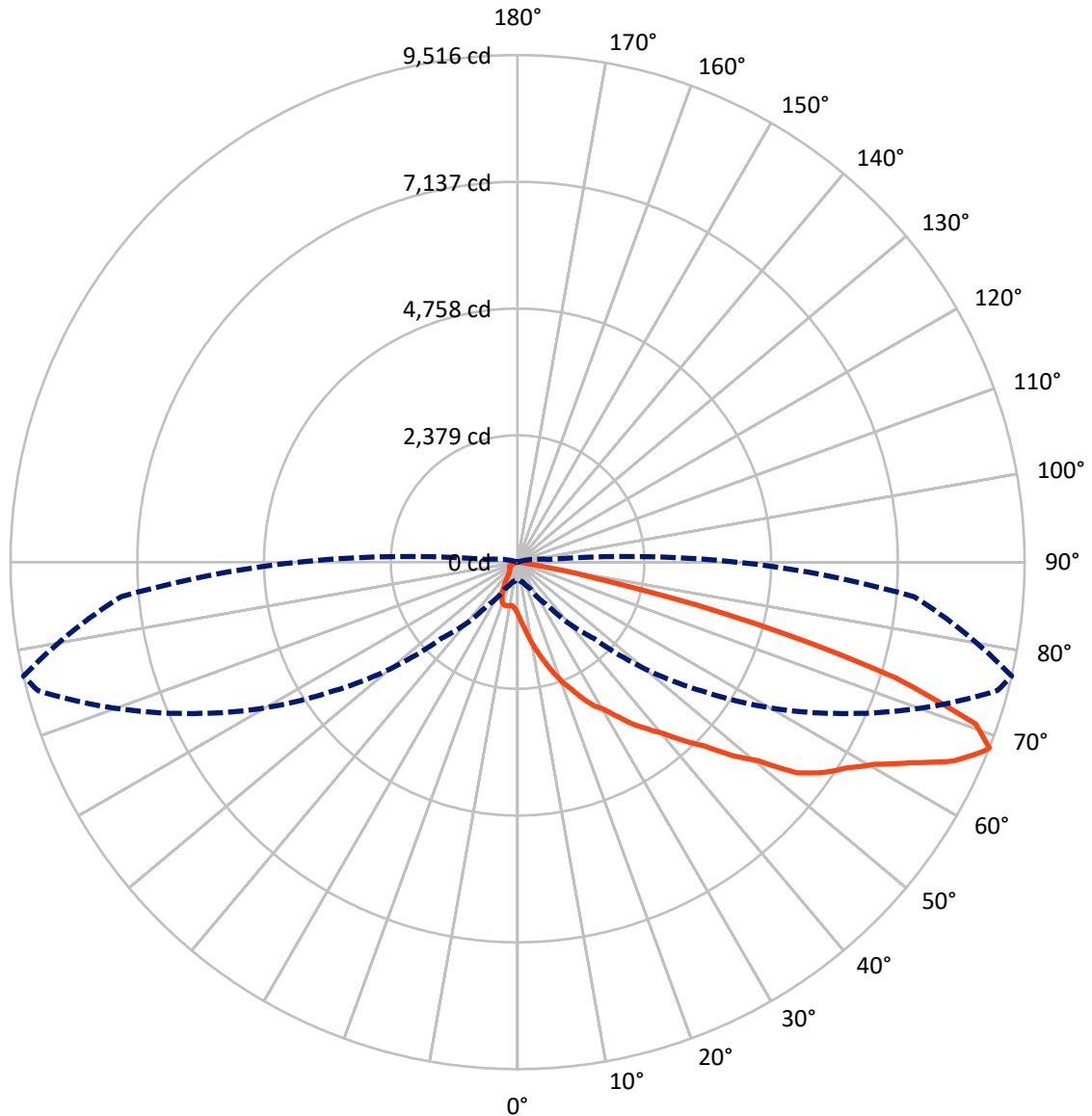
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 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	461.4	0.0	461.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	9714.2	0.0	9714.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	10175.7	0.0	10175.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.1
10°-20°	419.8	4.1
20°-30°	813.6	8.0
30°-40°	1418.4	13.9
40°-50°	2077.3	20.4
50°-60°	2440.6	24.0
60°-70°	2060.8	20.3
70°-80°	798.8	7.9
80°-90°	32.5	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°	10175.7	100.0
0°-180°	10175.7	100.0

Coefficient of Utilization



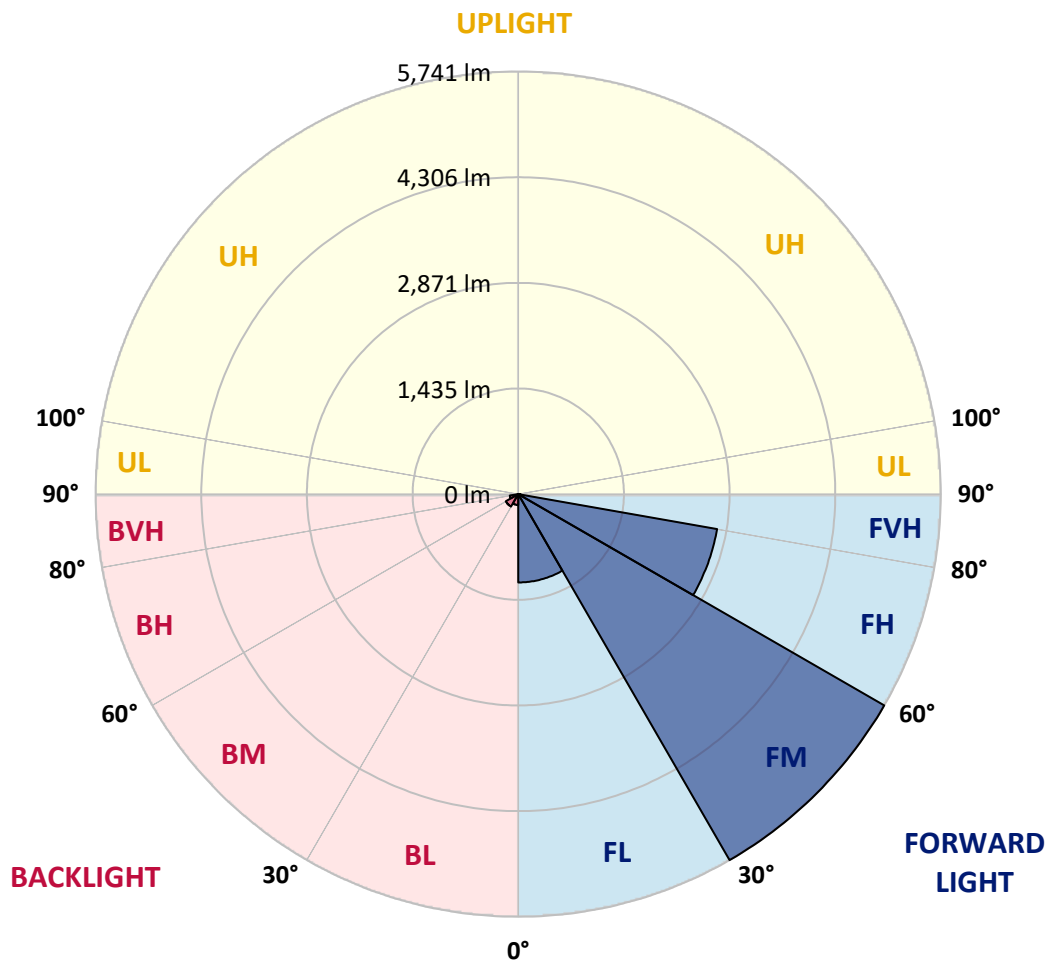
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.8	11.8			
FM (30°-60°)	5741.3	56.4			
FH (60°-80°)	2743.2	27.0			G2/5000
FVH (80°-90°)	30.0	0.3			G1/100
BL (0°-30°)	147.4	1.4	B1/500		
BM (30°-60°)	195.0	1.9	B0/220		
BH (60°-80°)	116.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	1480.4	1452.4	1423.0	1414.5	1359.9	1298.2	1240.7	1184.6	1090.7	1092.1	1027.6
5°	1908.0	1873.0	1849.1	1843.5	1758.0	1651.5	1564.5	1406.1	1250.5	1215.5	1097.7
7.5°	2259.9	2248.7	2213.6	2184.2	2121.1	1990.7	1888.4	1661.3	1424.4	1385.1	1183.2
10°	2473.0	2489.8	2505.2	2467.4	2418.3	2324.4	2184.2	1938.9	1622.0	1573.0	1294.0
12.5°	2700.1	2672.1	2681.9	2712.7	2648.2	2627.2	2453.4	2224.8	1853.3	1759.4	1434.2
15°	2759.0	2770.2	2794.0	2883.8	2927.2	2866.9	2716.9	2456.2	2093.1	1962.7	1564.5
17.5°	2798.2	2792.6	2822.1	2956.7	3022.5	3080.0	2986.1	2714.1	2302.0	2185.6	1727.2
20°	2847.3	2816.5	2880.9	2966.5	3119.3	3239.8	3235.6	2973.5	2520.7	2397.3	1888.4
22.5°	3029.6	3005.7	3057.6	3066.0	3172.5	3340.8	3381.4	3185.2	2745.0	2593.6	2062.2
25°	3366.0	3409.5	3347.8	3294.5	3326.8	3437.5	3467.0	3373.0	2970.7	2831.9	2236.1
27.5°	3858.1	3852.5	3730.5	3661.8	3584.7	3570.7	3591.7	3548.3	3148.7	3049.2	2379.1
30°	4386.6	4340.3	4228.2	4062.8	3893.1	3788.0	3758.6	3713.7	3357.6	3213.2	2520.7
32.5°	4807.2	4832.4	4707.7	4491.8	4210.0	4068.4	3926.8	3877.7	3587.5	3459.9	2683.3
35°	5194.1	5160.5	5060.9	4878.7	4626.3	4397.8	4176.3	4071.2	3863.7	3737.5	2862.7
37.5°	5480.1	5522.2	5332.9	5159.1	4908.1	4718.9	4501.6	4271.7	4148.3	3980.1	3081.4
40°	5750.7	5684.8	5557.2	5397.4	5164.7	5020.3	4877.3	4518.4	4451.1	4233.8	3328.2
42.5°	5703.0	5707.2	5637.1	5508.1	5339.9	5257.2	5208.1	4818.4	4725.9	4587.1	3569.3
45°	5508.1	5525.0	5548.8	5485.7	5499.7	5417.0	5548.8	5163.3	5072.2	4925.0	3846.9
47.5°	5293.7	5321.7	5316.1	5431.0	5561.4	5589.5	5918.9	5546.0	5506.7	5425.4	4231.0
50°	4937.6	4948.8	5056.7	5265.6	5443.7	5736.7	6196.5	5963.8	6024.1	5864.2	4688.0
52.5°	4329.1	4369.8	4647.4	4946.0	5304.9	5811.0	6384.4	6584.8	6737.6	6573.6	5126.8
55°	3559.5	3615.6	3888.9	4448.3	4974.0	5698.8	6555.4	6912.9	7222.7	6974.6	5393.2
57.5°	2864.1	2869.7	3115.1	3692.7	4504.4	5478.7	6642.3	7072.7	7489.1	7290.0	5718.4
60°	2182.8	2160.4	2380.5	2880.9	3713.7	4937.6	6425.0	7154.0	7821.3	7706.4	6109.6
62.5°	1404.7	1369.7	1609.4	2097.3	2900.6	4036.1	5990.4	7155.4	8340.0	8296.6	6764.3
65°	695.4	671.5	877.6	1285.6	2007.6	3087.0	5370.8	7128.8	8973.7	9001.7	7402.1
67.5°	367.3	375.7	441.6	651.9	1158.0	2181.4	4437.1	6816.1	9297.5	9454.6	7556.4
68°	337.9	340.7	392.5	542.5	1005.2	2023.0	4215.6	6725.0	9322.8	9516.2	7470.8
70°	274.8	279.0	297.2	340.7	543.9	1316.4	3252.5	5951.2	8942.9	9119.5	6762.9
72.5°	218.7	231.3	242.5	260.8	319.6	691.1	2023.0	4637.6	7388.1	7407.8	5264.2
75°	166.8	176.6	199.1	214.5	249.5	379.9	963.1	2827.7	4847.8	4609.5	3101.1
77.5°	129.0	137.4	147.2	168.2	208.9	256.6	294.4	1200.0	2059.4	1694.9	876.2
80°	77.1	82.7	115.0	131.8	182.2	173.8	116.4	333.7	417.8	329.5	159.8
82.5°	44.9	49.1	65.9	100.9	127.6	93.9	68.7	103.7	102.3	89.7	53.3
85°	1.4	2.8	36.4	60.3	44.9	25.2	42.1	43.5	36.4	33.6	23.8
87.5°	0.0	1.4	9.8	8.4	9.8	5.6	8.4	11.2	14.0	12.6	9.8
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°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	984.1	953.3	884.6	832.7	776.7	743.0	709.4	688.3	677.1	670.1	675.7
5°	1009.4	944.9	834.1	736.0	671.5	628.1	584.6	562.2	541.1	529.9	536.9
7.5°	1065.5	968.7	785.1	678.5	602.8	535.5	480.9	437.4	412.2	389.7	393.9
10°	1134.2	982.7	786.5	644.9	535.5	429.0	351.9	297.2	266.4	246.7	245.3
12.5°	1204.3	1037.4	792.1	611.2	452.8	322.4	231.3	190.7	172.4	162.6	162.6
15°	1310.8	1086.5	778.1	549.6	343.5	210.3	158.4	144.4	137.4	129.0	130.4
17.5°	1403.3	1165.0	771.1	457.0	235.5	151.4	131.8	116.4	109.3	100.9	100.9
20°	1528.1	1214.1	733.2	353.3	162.6	126.2	106.5	92.5	81.3	74.3	75.7
22.5°	1641.7	1251.9	665.9	241.1	124.8	99.5	78.5	64.5	54.7	46.3	47.7
25°	1765.0	1289.8	567.8	148.6	88.3	61.7	42.1	30.8	21.0	15.4	15.4
27.5°	1853.3	1301.0	440.2	88.3	53.3	28.0	9.8	1.4	0.0	0.0	0.0
30°	1943.1	1305.2	304.2	47.7	21.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2045.4	1303.8	190.7	25.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	2123.9	1280.0	91.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2243.1	1244.9	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2379.1	1181.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2501.0	1117.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2639.8	1037.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2883.8	1003.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3202.0	977.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3398.3	898.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3500.6	817.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3652.0	778.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3876.3	780.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4226.8	820.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4420.3	780.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4256.2	625.3	26.6	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	4114.6	574.8	26.6	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3401.1	374.3	25.2	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2477.2	207.5	21.0	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1441.2	103.7	15.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	375.7	51.9	12.6	7.0	4.2	1.4	0.0	0.0	0.0	0.0	0.0
80°	74.3	33.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	23.8	11.2	8.4	7.0	4.2	1.4	0.0	0.0	0.0	0.0
85°	18.2	11.2	11.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0
87.5°	8.4	4.2	4.2	4.2	4.2	2.8	1.4	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)