

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: P482057

Luminaire Tested: **IFLD-S-SA3B-740-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482057  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

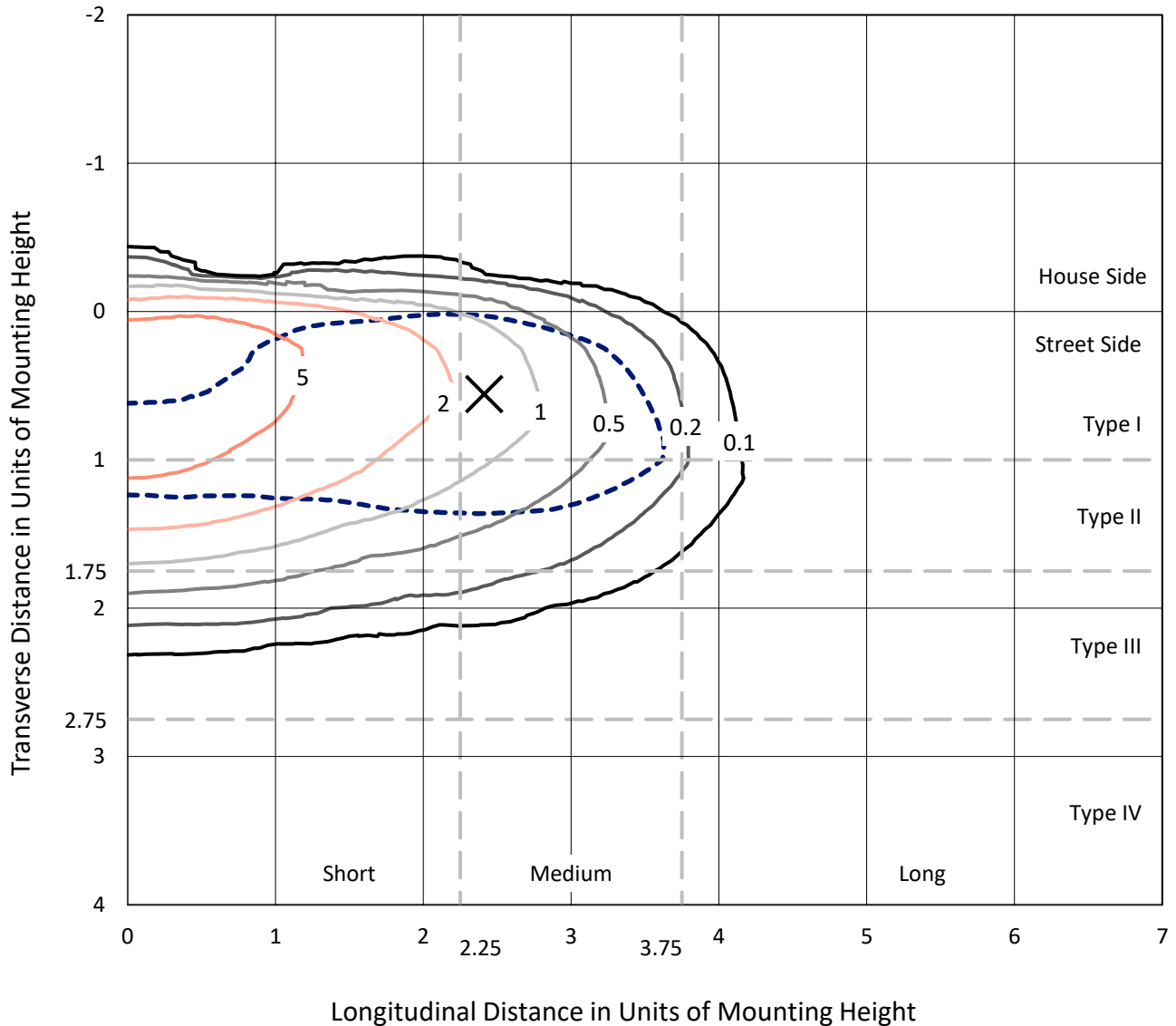
Lumens per Lamp: N/A  
Luminaire Lumens: 13378 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

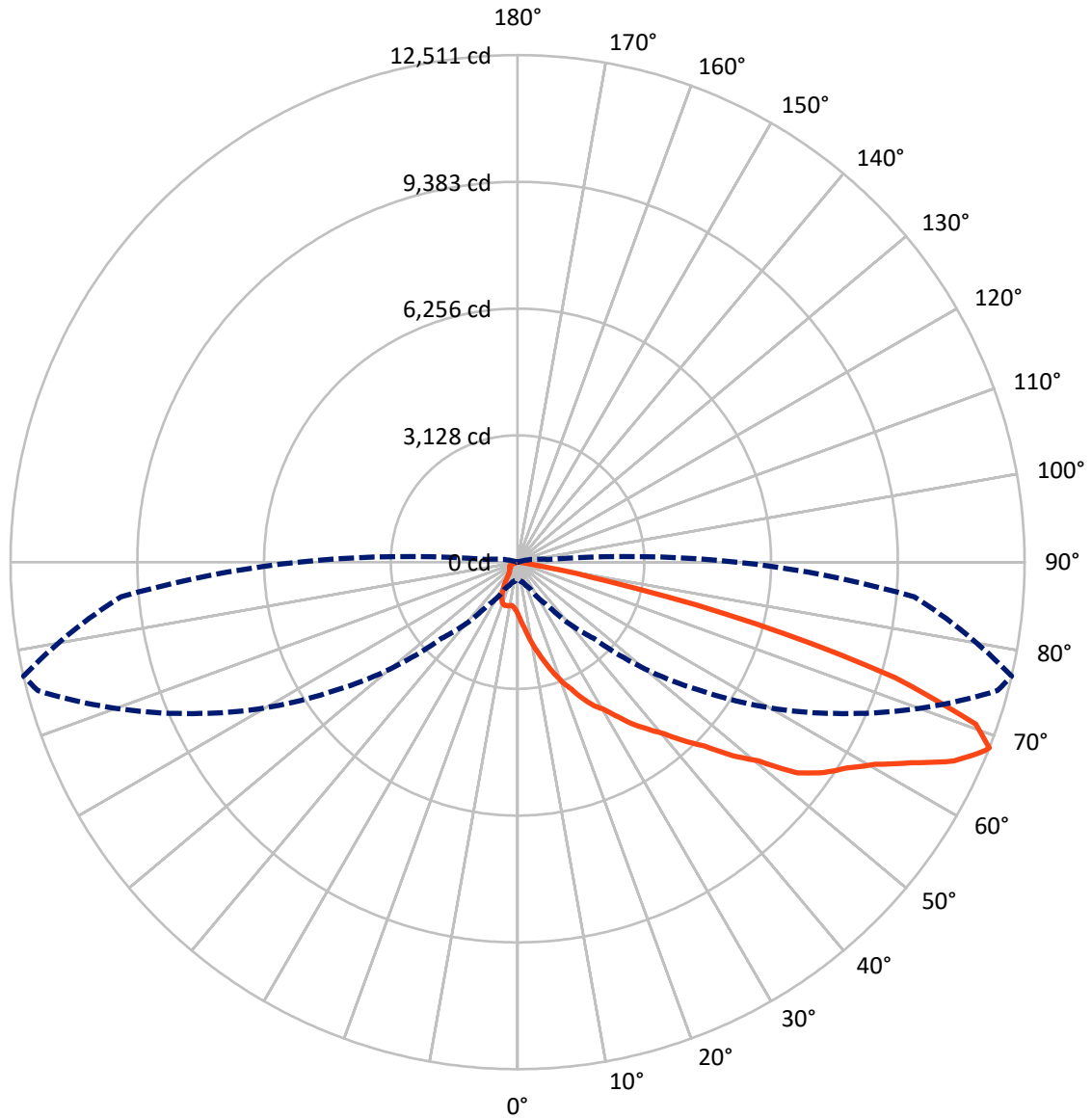
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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
<b>House Side</b>	Lumens	606.7	0.0	606.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	12771.3	0.0	12771.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	13378.0	0.0	13378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.7	1.1
10°-20°	551.9	4.1
20°-30°	1069.6	8.0
30°-40°	1864.7	13.9
40°-50°	2731.1	20.4
50°-60°	3208.6	24.0
60°-70°	2709.4	20.3
70°-80°	1050.2	7.9
80°-90°	42.7	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°	13378.0	100.0
0°-180°	13378.0	100.0

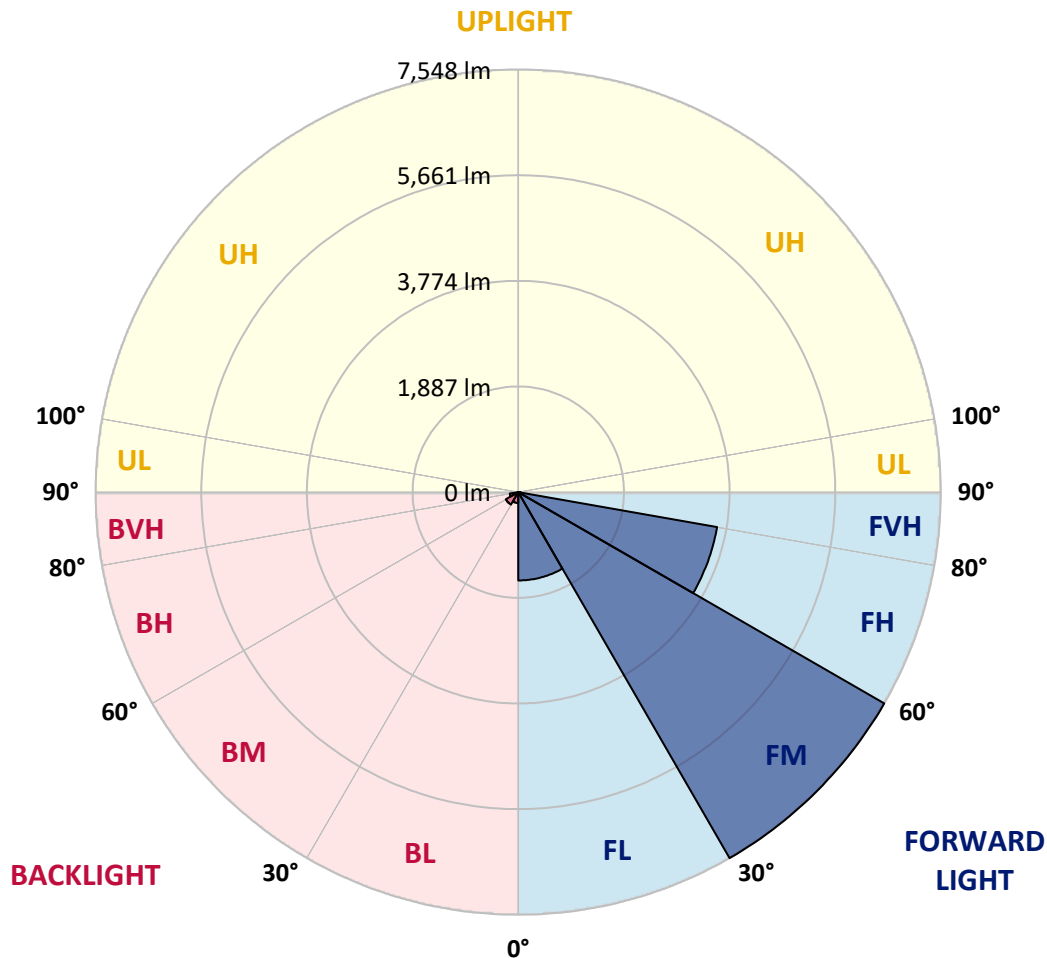


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.4	11.8			
FM (30°-60°)	7548.1	56.4			
FH (60°-80°)	3606.4	27.0			G2/5000
FVH (80°-90°)	39.4	0.3			G1/100
BL (0°-30°)	193.8	1.4	B1/500		
BM (30°-60°)	256.4	1.9	B1/1000		
BH (60°-80°)	153.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1946.3	1909.5	1870.8	1859.7	1787.8	1706.7	1631.2	1557.4	1433.9	1435.8	1351.0
5°	2508.5	2462.4	2431.1	2423.7	2311.3	2171.2	2056.9	1848.6	1644.1	1598.0	1443.2
7.5°	2971.1	2956.4	2910.3	2871.6	2788.6	2617.2	2482.7	2184.1	1872.6	1821.0	1555.6
10°	3251.3	3273.4	3293.6	3243.9	3179.4	3055.9	2871.6	2549.0	2132.5	2068.0	1701.2
12.5°	3549.8	3513.0	3525.9	3566.4	3481.6	3454.0	3225.4	2925.0	2436.6	2313.1	1885.5
15°	3627.2	3642.0	3673.3	3791.3	3848.4	3769.2	3572.0	3229.1	2751.8	2580.4	2056.9
17.5°	3678.9	3671.5	3710.2	3887.1	3973.8	4049.3	3925.8	3568.3	3026.4	2873.4	2270.7
20°	3743.4	3702.8	3787.6	3900.0	4100.9	4259.4	4253.9	3909.2	3313.9	3151.7	2482.7
22.5°	3983.0	3951.6	4019.8	4030.9	4171.0	4392.1	4445.6	4187.6	3608.8	3409.8	2711.2
25°	4425.3	4482.5	4401.4	4331.3	4373.7	4519.3	4558.0	4434.5	3905.6	3723.1	2939.8
27.5°	5072.2	5064.9	4904.5	4814.2	4712.8	4694.4	4722.1	4664.9	4139.6	4008.8	3127.8
30°	5767.1	5706.3	5558.8	5341.3	5118.3	4980.1	4941.4	4882.4	4414.3	4224.4	3313.9
32.5°	6320.0	6353.2	6189.2	5905.3	5534.9	5348.7	5162.6	5098.1	4716.5	4548.8	3527.7
35°	6828.7	6784.5	6653.6	6414.0	6082.3	5781.8	5490.6	5352.4	5079.6	4913.7	3763.6
37.5°	7204.7	7260.0	7011.2	6782.7	6452.7	6203.9	5918.2	5616.0	5453.8	5232.6	4051.2
40°	7560.5	7473.8	7306.1	7096.0	6790.0	6600.2	6412.2	5940.4	5851.9	5566.2	4375.6
42.5°	7497.8	7503.3	7411.2	7241.6	7020.4	6911.7	6847.2	6334.8	6213.1	6030.7	4692.6
45°	7241.6	7263.7	7295.0	7212.1	7230.5	7121.8	7295.0	6788.2	6668.4	6474.9	5057.5
47.5°	6959.6	6996.5	6989.1	7140.2	7311.6	7348.5	7781.6	7291.4	7239.7	7132.8	5562.5
50°	6491.4	6506.2	6648.1	6922.7	7156.8	7542.0	8146.6	7840.6	7919.9	7709.7	6163.4
52.5°	5691.5	5745.0	6109.9	6502.5	6974.3	7639.7	8393.5	8657.1	8858.0	8642.4	6740.3
55°	4679.7	4753.4	5112.8	5848.2	6539.4	7492.3	8618.4	9088.4	9495.7	9169.5	7090.5
57.5°	3765.5	3772.9	4095.4	4854.8	5921.9	7202.9	8732.7	9298.5	9845.9	9584.2	7518.1
60°	2869.7	2840.2	3129.6	3787.6	4882.4	6491.4	8447.0	9405.4	10282.7	10131.6	8032.3
62.5°	1846.8	1800.7	2115.9	2757.3	3813.4	5306.3	7875.6	9407.3	10964.7	10907.5	8893.0
65°	914.2	882.9	1153.8	1690.1	2639.3	4058.5	7061.0	9372.2	11797.8	11834.6	9731.6
67.5°	482.9	494.0	580.6	857.0	1522.4	2867.9	5833.5	8961.2	12223.5	12430.0	9934.4
68°	444.2	447.9	516.1	713.3	1321.5	2659.6	5542.2	8841.4	12256.7	12511.1	9822.0
70°	361.3	366.8	390.7	447.9	715.1	1730.7	4276.0	7824.0	11757.2	11989.5	8891.2
72.5°	287.5	304.1	318.9	342.8	420.2	908.7	2659.6	6097.0	9713.2	9739.0	6920.9
75°	219.3	232.2	261.7	282.0	328.1	499.5	1266.2	3717.6	6373.5	6060.2	4077.0
77.5°	169.6	180.6	193.5	221.2	274.6	337.3	387.1	1577.7	2707.5	2228.3	1151.9
80°	101.4	108.7	151.1	173.3	239.6	228.5	153.0	438.7	549.2	433.1	210.1
82.5°	59.0	64.5	86.6	132.7	167.7	123.5	90.3	136.4	134.5	118.0	70.0
85°	1.8	3.7	47.9	79.3	59.0	33.2	55.3	57.1	47.9	44.2	31.3
87.5°	0.0	1.8	12.9	11.1	12.9	7.4	11.1	14.7	18.4	16.6	12.9
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°	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1293.9	1253.3	1163.0	1094.8	1021.1	976.9	932.6	905.0	890.2	881.0	888.4
5°	1327.0	1242.3	1096.7	967.6	882.9	825.7	768.6	739.1	711.4	696.7	705.9
7.5°	1400.8	1273.6	1032.1	892.1	792.5	704.1	632.2	575.1	541.9	512.4	517.9
10°	1491.1	1292.0	1034.0	847.8	704.1	564.0	462.6	390.7	350.2	324.4	322.5
12.5°	1583.2	1363.9	1041.4	803.6	595.3	423.9	304.1	250.7	226.7	213.8	213.8
15°	1723.3	1428.4	1022.9	722.5	451.6	276.5	208.3	189.8	180.6	169.6	171.4
17.5°	1845.0	1531.6	1013.7	600.9	309.6	199.1	173.3	153.0	143.8	132.7	132.7
20°	2009.0	1596.1	963.9	464.5	213.8	165.9	140.1	121.6	106.9	97.7	99.5
22.5°	2158.3	1645.9	875.5	317.0	164.0	130.9	103.2	84.8	71.9	60.8	62.7
25°	2320.5	1695.7	746.5	195.4	116.1	81.1	55.3	40.5	27.6	20.3	20.3
27.5°	2436.6	1710.4	578.7	116.1	70.0	36.9	12.9	1.8	0.0	0.0	0.0
30°	2554.6	1715.9	400.0	62.7	27.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2689.1	1714.1	250.7	33.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2792.3	1682.8	119.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2949.0	1636.7	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3127.8	1553.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3288.1	1469.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3470.6	1363.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3791.3	1319.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4209.7	1284.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4467.7	1181.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4602.3	1074.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4801.3	1022.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5096.2	1026.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5557.0	1078.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5811.3	1026.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5595.7	822.0	35.0	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5409.5	755.7	35.0	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4471.4	492.1	33.2	9.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3256.8	272.8	27.6	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1894.7	136.4	20.3	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	494.0	68.2	16.6	9.2	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	97.7	44.2	14.7	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	46.1	31.3	14.7	11.1	9.2	5.5	1.8	0.0	0.0	0.0	0.0
85°	24.0	14.7	14.7	11.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0
87.5°	11.1	5.5	5.5	5.5	5.5	3.7	1.8	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)