

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: P482210

Luminaire Tested: **IFLD-S-SA2D-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482210  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

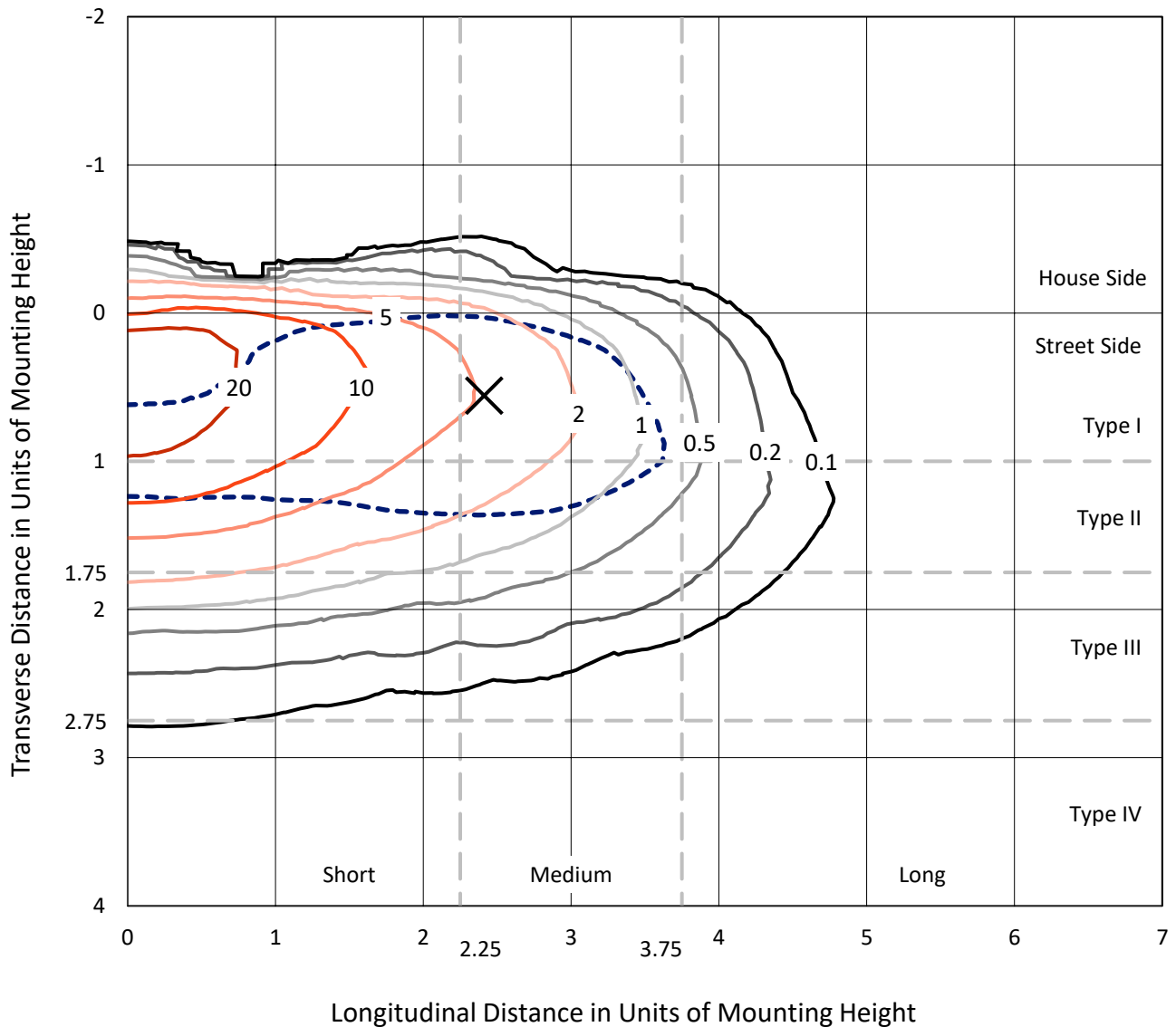
Lumens per Lamp: N/A  
Luminaire Lumens: 9770.3 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

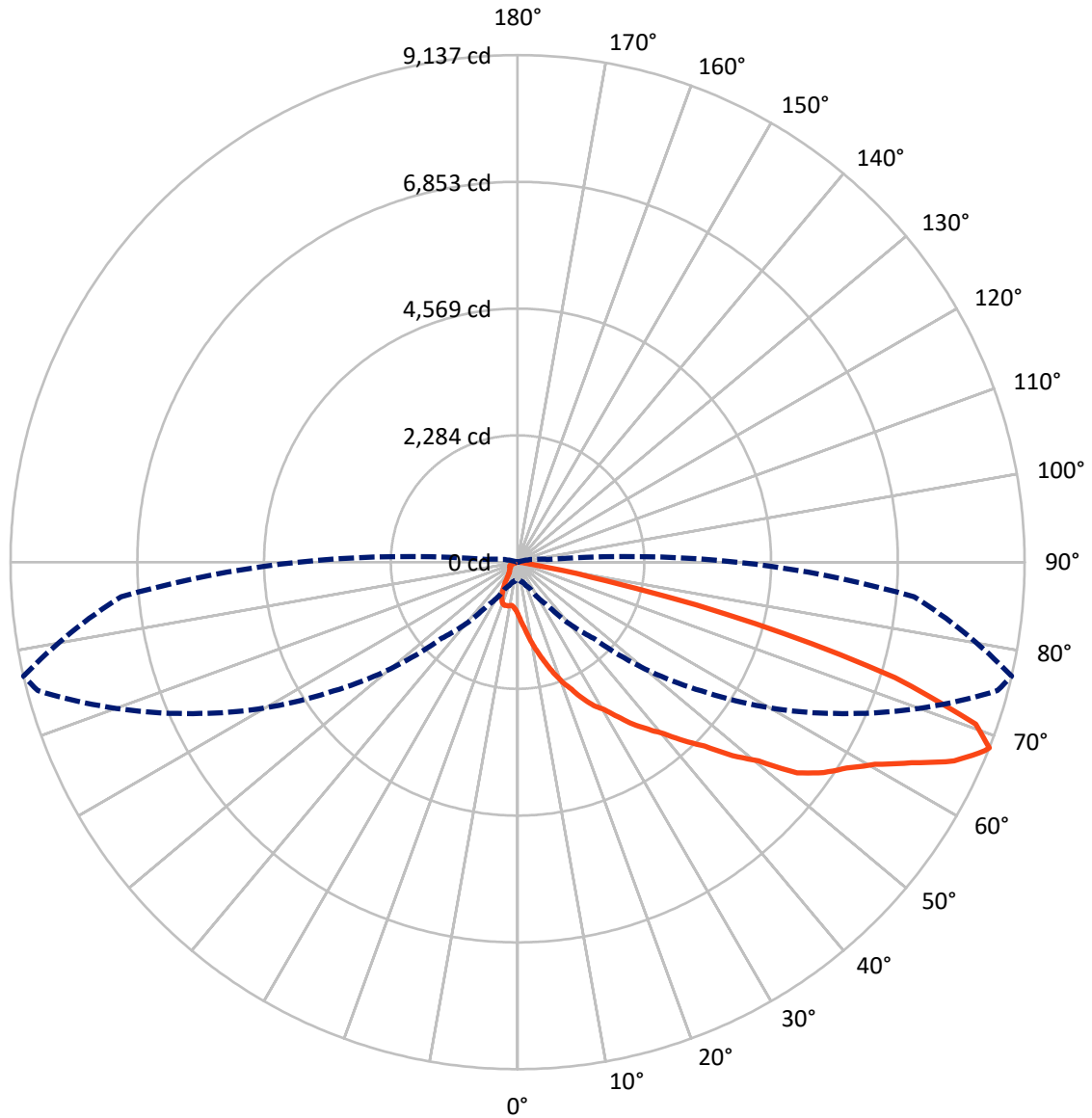
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.7 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	443.1	0.0	443.1
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	9327.3	0.0	9327.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	9770.3	0.0	9770.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	1.1
10°-20°	403.1	4.1
20°-30°	781.2	8.0
30°-40°	1361.9	13.9
40°-50°	1994.6	20.4
50°-60°	2343.3	24.0
60°-70°	1978.7	20.3
70°-80°	767.0	7.9
80°-90°	31.2	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°	9770.3	100.0
0°-180°	9770.3	100.0

**Coefficient of Utilization**

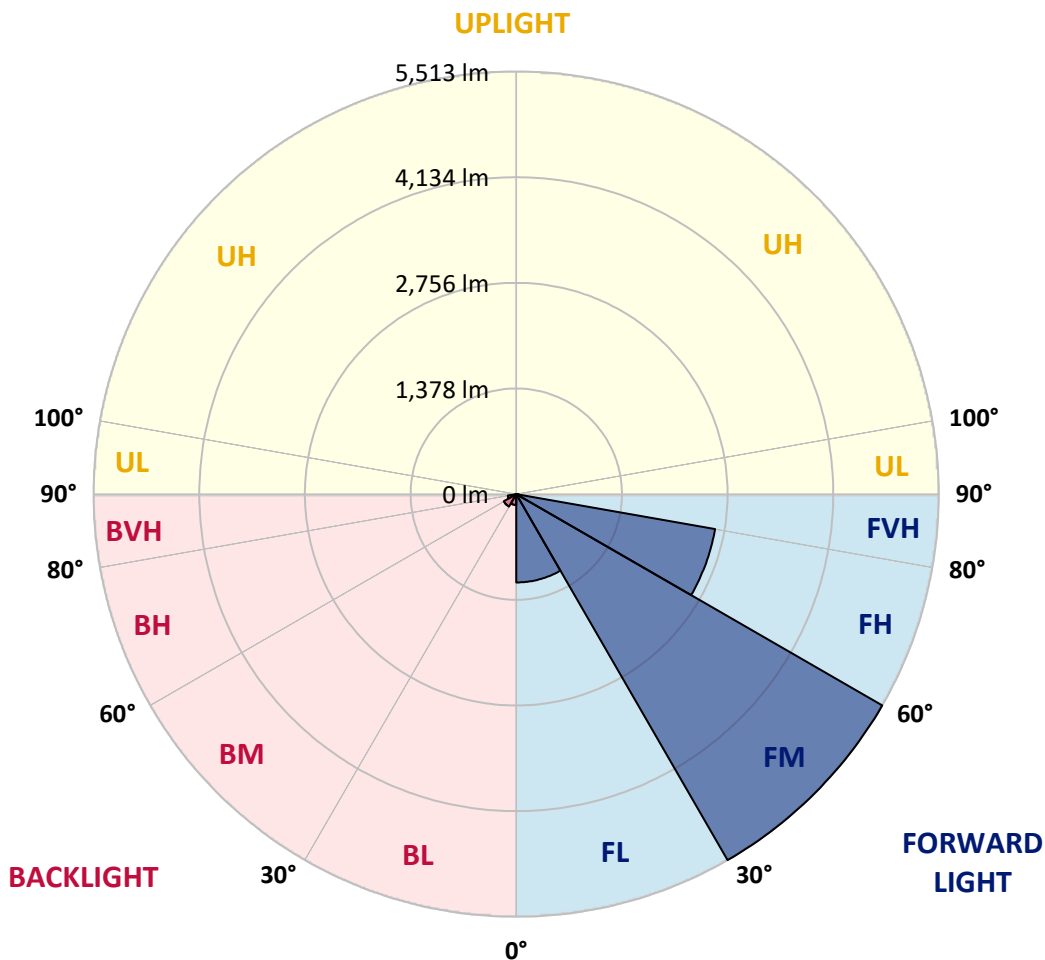


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.0	11.8			
FM (30°-60°)	5512.6	56.4			
FH (60°-80°)	2633.9	27.0			G2/5000
FVH (80°-90°)	28.8	0.3			G1/100
BL (0°-30°)	141.6	1.4	B1/500		
BM (30°-60°)	187.2	1.9	B0/220		
BH (60°-80°)	111.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5
2.5°	1421.5	1394.5	1366.3	1358.2	1305.7	1246.5	1191.3	1137.4	1047.2	1048.6	986.7
5°	1832.0	1798.4	1775.5	1770.1	1688.0	1585.7	1502.2	1350.1	1200.7	1167.0	1054.0
7.5°	2169.9	2159.1	2125.5	2097.2	2036.6	1911.4	1813.2	1595.1	1367.6	1329.9	1136.1
10°	2374.5	2390.6	2405.4	2369.1	2322.0	2231.8	2097.2	1861.6	1557.4	1510.3	1242.4
12.5°	2592.5	2565.6	2575.0	2604.7	2542.7	2522.5	2355.6	2136.2	1779.5	1689.3	1377.0
15°	2649.1	2659.8	2682.7	2768.9	2810.6	2752.7	2608.7	2358.3	2009.7	1884.5	1502.2
17.5°	2686.8	2681.4	2709.7	2838.9	2902.1	2957.3	2867.1	2606.0	2210.3	2098.5	1658.4
20°	2733.9	2704.3	2766.2	2848.3	2995.0	3110.8	3106.7	2855.0	2420.2	2301.8	1813.2
22.5°	2908.9	2886.0	2935.8	2943.9	3046.2	3207.7	3246.7	3058.3	2635.6	2490.2	1980.1
25°	3231.9	3273.7	3214.4	3163.3	3194.2	3300.6	3328.9	3238.7	2852.3	2719.1	2147.0
27.5°	3704.4	3699.0	3581.9	3516.0	3441.9	3428.5	3448.7	3406.9	3023.3	2927.7	2284.3
30°	4211.9	4167.5	4059.8	3900.9	3738.1	3637.1	3608.8	3565.8	3223.9	3085.2	2420.2
32.5°	4615.7	4639.9	4520.1	4312.8	4042.3	3906.3	3770.4	3723.3	3444.6	3322.1	2576.4
35°	4987.2	4954.9	4859.3	4684.4	4442.1	4222.6	4010.0	3909.0	3709.8	3588.6	2748.7
37.5°	5261.8	5302.2	5120.5	4953.6	4712.6	4530.9	4322.3	4101.5	3983.0	3821.5	2958.7
40°	5521.6	5458.3	5335.9	5182.4	4959.0	4820.3	4683.0	4338.4	4273.8	4065.2	3195.6
42.5°	5475.8	5479.9	5412.6	5288.7	5127.2	5047.8	5000.7	4626.5	4537.6	4404.4	3427.1
45°	5288.7	5304.9	5327.8	5267.2	5280.7	5201.2	5327.8	4957.6	4870.1	4728.8	3693.6
47.5°	5082.8	5109.7	5104.3	5214.7	5339.9	5366.8	5683.1	5325.1	5287.4	5209.3	4062.5
50°	4740.9	4751.7	4855.3	5055.9	5226.8	5508.1	5949.7	5726.2	5784.1	5630.6	4501.3
52.5°	4156.7	4195.7	4462.2	4749.0	5093.6	5579.5	6130.0	6322.5	6469.2	6311.8	4922.6
55°	3417.7	3471.5	3734.0	4271.1	4775.9	5471.8	6294.3	6637.5	6935.0	6696.7	5178.4
57.5°	2750.0	2755.4	2991.0	3545.6	4324.9	5260.5	6377.7	6791.0	7190.7	6999.6	5490.7
60°	2095.8	2074.3	2285.6	2766.2	3565.8	4740.9	6169.1	6869.0	7509.8	7399.4	5866.2
62.5°	1348.8	1315.1	1545.3	2013.7	2785.0	3875.4	5751.8	6870.4	8007.8	7966.1	6494.8
65°	667.7	644.8	842.6	1234.4	1927.6	2964.1	5156.8	6844.8	8616.2	8643.2	7107.3
67.5°	352.7	360.7	424.0	625.9	1111.9	2094.5	4260.3	6544.6	8927.2	9077.9	7255.4
68°	324.4	327.1	376.9	520.9	965.1	1942.4	4047.7	6457.1	8951.4	9137.2	7173.2
70°	263.8	267.9	285.4	327.1	522.3	1264.0	3122.9	5714.1	8586.6	8756.2	6493.5
72.5°	210.0	222.1	232.9	250.4	306.9	663.6	1942.4	4452.8	7093.8	7112.7	5054.5
75°	160.2	169.6	191.1	205.9	239.6	364.8	924.8	2715.0	4654.7	4425.9	2977.5
77.5°	123.8	131.9	141.3	161.5	200.6	246.3	282.7	1152.2	1977.4	1627.4	841.3
80°	74.0	79.4	110.4	126.5	175.0	166.9	111.7	320.4	401.1	316.3	153.5
82.5°	43.1	47.1	63.3	96.9	122.5	90.2	66.0	99.6	98.3	86.1	51.2
85°	1.3	2.7	35.0	57.9	43.1	24.2	40.4	41.7	35.0	32.3	22.9
87.5°	0.0	1.3	9.4	8.1	9.4	5.4	8.1	10.8	13.5	12.1	9.4
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°	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5
2.5°	944.9	915.3	849.4	799.6	745.7	713.4	681.1	660.9	650.2	643.4	648.8
5°	969.2	907.3	800.9	706.7	644.8	603.0	561.3	539.8	519.6	508.8	515.5
7.5°	1023.0	930.1	753.8	651.5	578.8	514.2	461.7	420.0	395.7	374.2	378.2
10°	1089.0	943.6	755.1	619.2	514.2	411.9	337.9	285.4	255.8	236.9	235.6
12.5°	1156.3	996.1	760.5	586.9	434.8	309.6	222.1	183.1	165.6	156.1	156.1
15°	1258.6	1043.2	747.1	527.7	329.8	201.9	152.1	138.6	131.9	123.8	125.2
17.5°	1347.4	1118.6	740.3	438.8	226.1	145.4	126.5	111.7	105.0	96.9	96.9
20°	1467.2	1165.7	704.0	339.2	156.1	121.1	102.3	88.8	78.1	71.3	72.7
22.5°	1576.3	1202.0	639.4	231.5	119.8	95.6	75.4	61.9	52.5	44.4	45.8
25°	1694.7	1238.4	545.2	142.7	84.8	59.2	40.4	29.6	20.2	14.8	14.8
27.5°	1779.5	1249.2	422.7	84.8	51.2	26.9	9.4	1.3	0.0	0.0	0.0
30°	1865.7	1253.2	292.1	45.8	20.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1963.9	1251.9	183.1	24.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	2039.3	1229.0	87.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2153.7	1195.3	26.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2284.3	1134.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2401.4	1072.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2534.7	996.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2768.9	963.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3074.4	938.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3262.9	862.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3361.2	784.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3506.5	747.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3721.9	749.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4058.4	787.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4244.2	749.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4086.7	600.4	25.6	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	3950.7	551.9	25.6	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3265.6	359.4	24.2	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2378.5	199.2	20.2	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1383.8	99.6	14.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	360.7	49.8	12.1	6.7	4.0	1.3	0.0	0.0	0.0	0.0	0.0
80°	71.3	32.3	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	22.9	10.8	8.1	6.7	4.0	1.3	0.0	0.0	0.0	0.0
85°	17.5	10.8	10.8	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	8.1	4.0	4.0	4.0	4.0	2.7	1.3	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)