

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: P482014

Luminaire Tested: **IFLD-S-SA2C-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482014  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

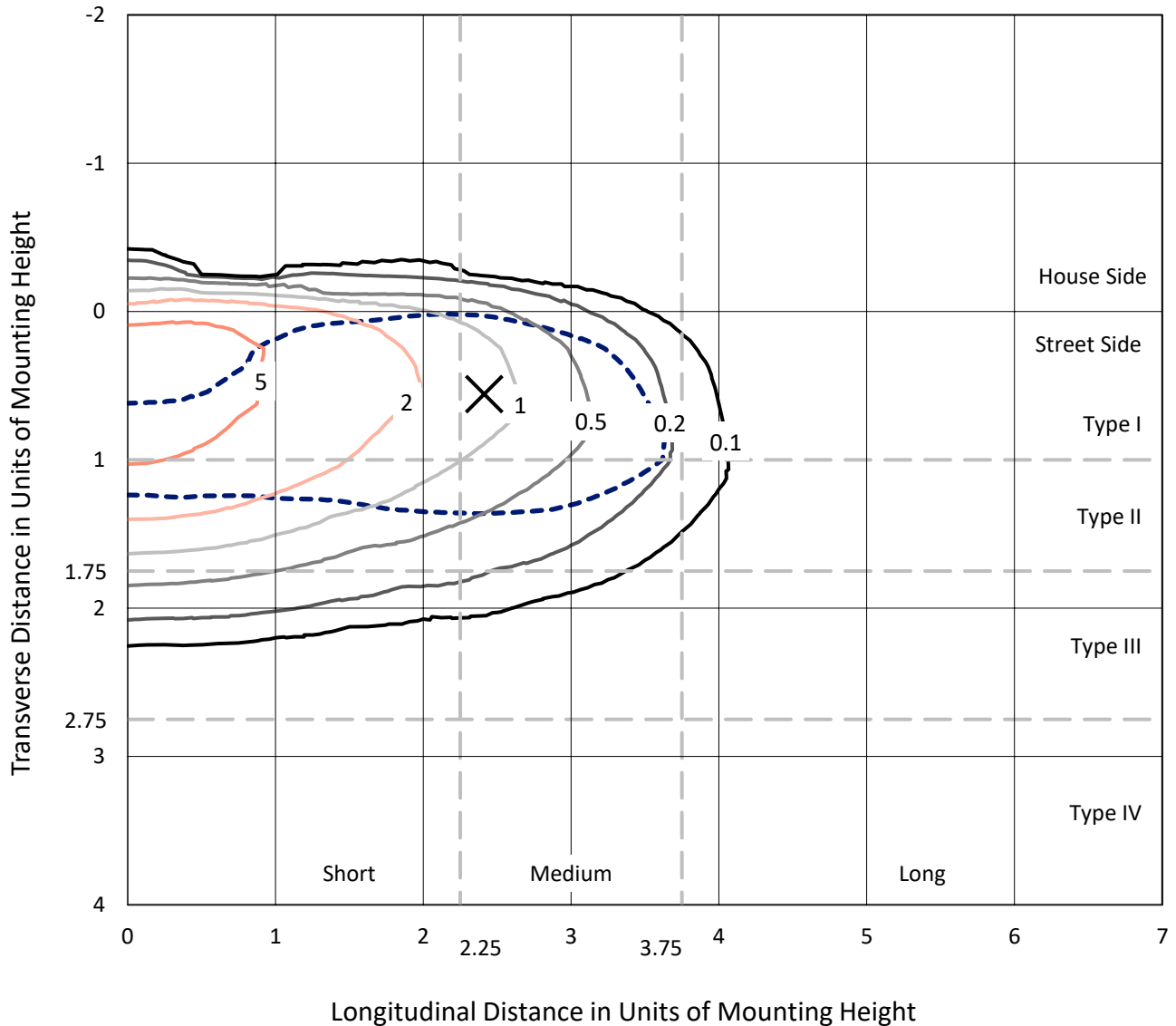
Lumens per Lamp: N/A  
Luminaire Lumens: 11021.6 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

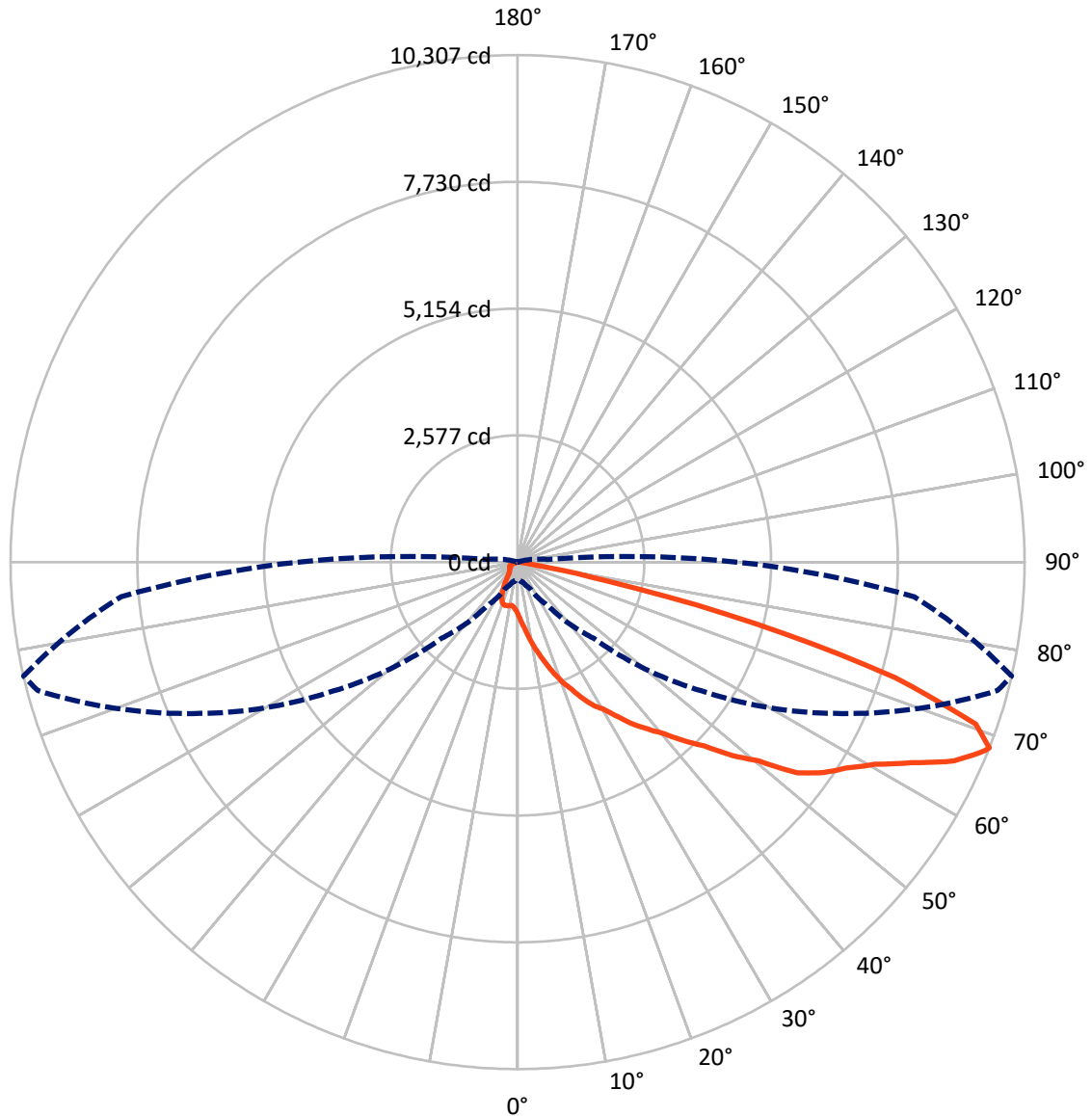
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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	499.8	0.0	499.8
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	10521.8	0.0	10521.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	11021.6	0.0	11021.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	1.1
10°-20°	454.7	4.1
20°-30°	881.2	8.0
30°-40°	1536.3	13.9
40°-50°	2250.0	20.4
50°-60°	2643.4	24.0
60°-70°	2232.2	20.3
70°-80°	865.2	7.9
80°-90°	35.2	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°	11021.6	100.0
0°-180°	11021.6	100.0

**Coefficient of Utilization**

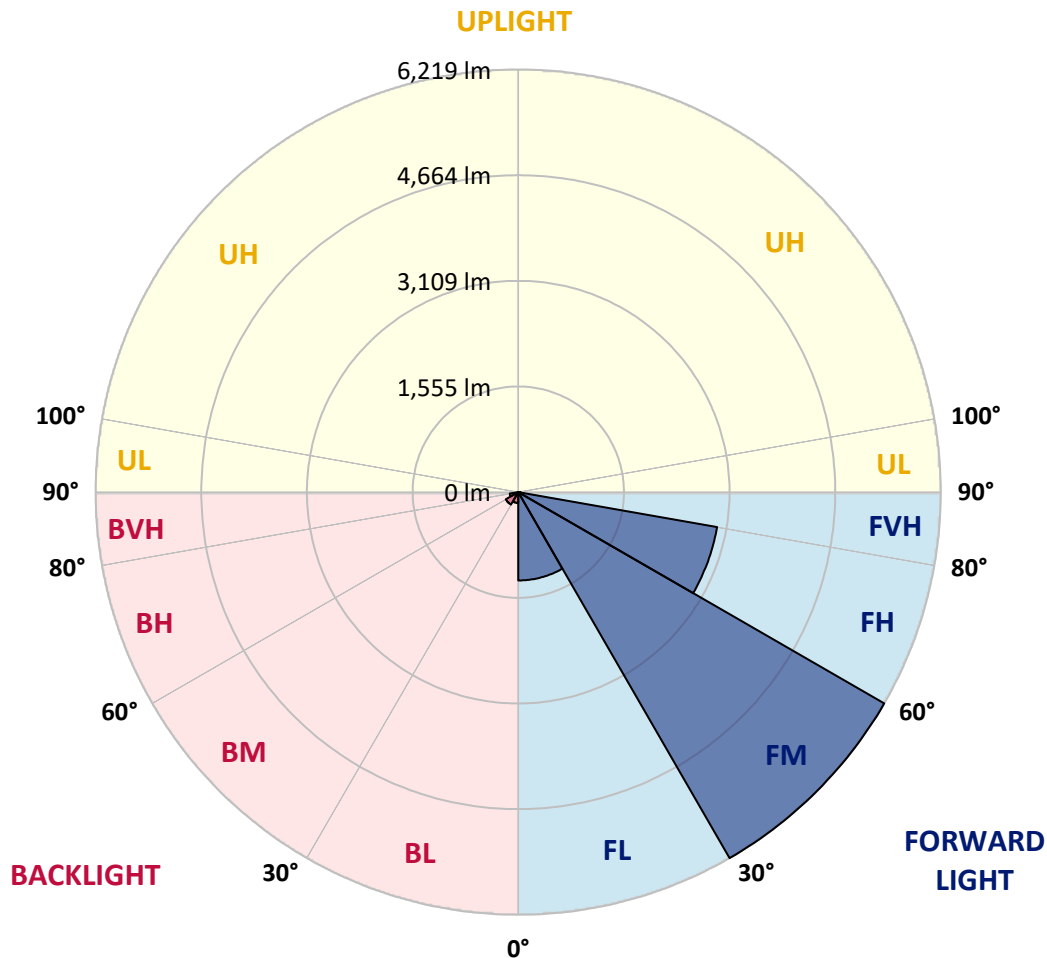


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.5	11.8			
FM (30°-60°)	6218.6	56.4			
FH (60°-80°)	2971.2	27.0			G2/5000
FVH (80°-90°)	32.5	0.3			G1/100
BL (0°-30°)	159.7	1.4	B1/500		
BM (30°-60°)	211.2	1.9	B0/220		
BH (60°-80°)	126.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3
2.5°	1603.5	1573.1	1541.2	1532.1	1472.9	1406.1	1343.8	1283.1	1181.4	1182.9	1113.0
5°	2066.6	2028.7	2002.9	1996.8	1904.2	1788.8	1694.6	1523.0	1354.5	1316.5	1189.0
7.5°	2447.8	2435.6	2397.7	2365.8	2297.4	2156.2	2045.4	1799.4	1542.8	1500.2	1281.6
10°	2678.6	2696.8	2713.5	2672.5	2619.4	2517.6	2365.8	2100.0	1756.9	1703.7	1401.5
12.5°	2924.6	2894.2	2904.8	2938.2	2868.4	2845.6	2657.3	2409.8	2007.4	1905.7	1553.4
15°	2988.3	3000.5	3026.3	3123.5	3170.6	3105.3	2942.8	2660.4	2267.1	2125.9	1694.6
17.5°	3030.9	3024.8	3056.7	3202.4	3273.8	3336.1	3234.3	2939.8	2493.3	2367.3	1870.8
20°	3084.0	3050.6	3120.4	3213.1	3378.6	3509.2	3504.6	3220.7	2730.2	2596.6	2045.4
22.5°	3281.4	3255.6	3311.8	3320.9	3436.3	3618.5	3662.5	3450.0	2973.2	2809.2	2233.7
25°	3645.8	3692.9	3626.1	3568.4	3603.3	3723.3	3755.2	3653.4	3217.6	3067.3	2422.0
27.5°	4178.8	4172.7	4040.6	3966.2	3882.7	3867.5	3890.3	3843.2	3410.5	3302.7	2576.8
30°	4751.3	4701.2	4579.7	4400.5	4216.8	4102.9	4071.0	4022.4	3636.7	3480.3	2730.2
32.5°	5206.8	5234.2	5099.0	4865.2	4560.0	4406.6	4253.2	4200.1	3885.8	3747.6	2906.3
35°	5625.9	5589.5	5481.7	5284.3	5010.9	4763.4	4523.5	4409.6	4184.9	4048.2	3100.7
37.5°	5935.7	5981.2	5776.2	5588.0	5316.1	5111.2	4875.8	4626.8	4493.1	4310.9	3337.6
40°	6228.7	6157.4	6019.2	5846.1	5594.0	5437.6	5282.7	4894.0	4821.1	4585.8	3604.8
42.5°	6177.1	6181.7	6105.8	5966.1	5783.8	5694.2	5641.1	5219.0	5118.7	4968.4	3866.0
45°	5966.1	5984.3	6010.1	5941.8	5956.9	5867.4	6010.1	5592.5	5493.8	5334.4	4166.7
47.5°	5733.7	5764.1	5758.0	5882.5	6023.8	6054.1	6411.0	6007.1	5964.5	5876.5	4582.7
50°	5348.0	5360.2	5477.1	5703.4	5896.2	6213.6	6711.6	6459.6	6524.8	6351.7	5077.8
52.5°	4689.0	4733.1	5033.7	5357.1	5745.9	6294.0	6915.1	7132.2	7297.7	7120.1	5553.0
55°	3855.4	3916.1	4212.2	4818.1	5387.5	6172.6	7100.3	7487.6	7823.1	7554.4	5841.5
57.5°	3102.2	3108.3	3374.0	3999.6	4878.8	5934.2	7194.5	7660.7	8111.6	7896.0	6193.8
60°	2364.3	2340.0	2578.4	3120.4	4022.4	5348.0	6959.1	7748.7	8471.5	8347.0	6617.5
62.5°	1521.5	1483.5	1743.2	2271.6	3141.7	4371.7	6488.4	7750.3	9033.4	8986.3	7326.6
65°	753.2	727.3	950.6	1392.4	2174.4	3343.7	5817.2	7721.4	9719.7	9750.1	8017.5
67.5°	397.8	406.9	478.3	706.1	1254.3	2362.7	4805.9	7382.8	10070.5	10240.5	8184.5
68°	366.0	369.0	425.2	587.6	1088.7	2191.1	4566.0	7284.1	10097.8	10307.3	8091.9
70°	297.6	302.2	321.9	369.0	589.2	1425.8	3522.8	6445.9	9686.3	9877.6	7325.1
72.5°	236.9	250.5	262.7	282.4	346.2	748.6	2191.1	5023.1	8002.3	8023.6	5701.8
75°	180.7	191.3	215.6	232.3	270.3	411.5	1043.2	3062.7	5250.9	4992.7	3358.8
77.5°	139.7	148.8	159.4	182.2	226.3	277.9	318.9	1299.8	2230.6	1835.8	949.0
80°	83.5	89.6	124.5	142.7	197.4	188.3	126.0	361.4	452.5	356.8	173.1
82.5°	48.6	53.1	71.4	109.3	138.2	101.7	74.4	112.4	110.8	97.2	57.7
85°	1.5	3.0	39.5	65.3	48.6	27.3	45.6	47.1	39.5	36.4	25.8
87.5°	0.0	1.5	10.6	9.1	10.6	6.1	9.1	12.1	15.2	13.7	10.6
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°	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3	1055.3
2.5°	1066.0	1032.6	958.2	902.0	841.2	804.8	768.3	745.6	733.4	725.8	731.9
5°	1093.3	1023.4	903.5	797.2	727.3	680.3	633.2	608.9	586.1	574.0	581.6
7.5°	1154.0	1049.3	850.3	734.9	652.9	580.1	520.8	473.8	446.4	422.1	426.7
10°	1228.4	1064.4	851.9	698.5	580.1	464.7	381.1	321.9	288.5	267.3	265.7
12.5°	1304.4	1123.7	857.9	662.1	490.5	349.2	250.5	206.5	186.8	176.1	176.1
15°	1419.8	1176.8	842.7	595.2	372.0	227.8	171.6	156.4	148.8	139.7	141.2
17.5°	1520.0	1261.8	835.2	495.0	255.1	164.0	142.7	126.0	118.4	109.3	109.3
20°	1655.1	1315.0	794.2	382.7	176.1	136.7	115.4	100.2	88.1	80.5	82.0
22.5°	1778.1	1356.0	721.3	261.2	135.1	107.8	85.0	69.8	59.2	50.1	51.6
25°	1911.7	1397.0	615.0	161.0	95.7	66.8	45.6	33.4	22.8	16.7	16.7
27.5°	2007.4	1409.1	476.8	95.7	57.7	30.4	10.6	1.5	0.0	0.0	0.0
30°	2104.6	1413.7	329.5	51.6	22.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2215.4	1412.2	206.5	27.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2300.5	1386.4	98.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2429.5	1348.4	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2576.8	1280.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2708.9	1210.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2859.3	1123.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3123.5	1087.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3468.2	1058.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3680.8	973.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3791.6	885.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3955.6	842.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4198.6	845.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4578.2	888.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4787.7	845.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4610.1	677.2	28.9	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4456.7	622.6	28.9	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3683.8	405.4	27.3	7.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2683.1	224.7	22.8	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1561.0	112.4	16.7	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	406.9	56.2	13.7	7.6	4.6	1.5	0.0	0.0	0.0	0.0	0.0
80°	80.5	36.4	12.1	9.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.0	25.8	12.1	9.1	7.6	4.6	1.5	0.0	0.0	0.0	0.0
85°	19.7	12.1	12.1	9.1	9.1	6.1	3.0	0.0	0.0	0.0	0.0
87.5°	9.1	4.6	4.6	4.6	4.6	3.0	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)