

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: P481973

Luminaire Tested: **IFLD-S-SA2A-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481973  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-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**

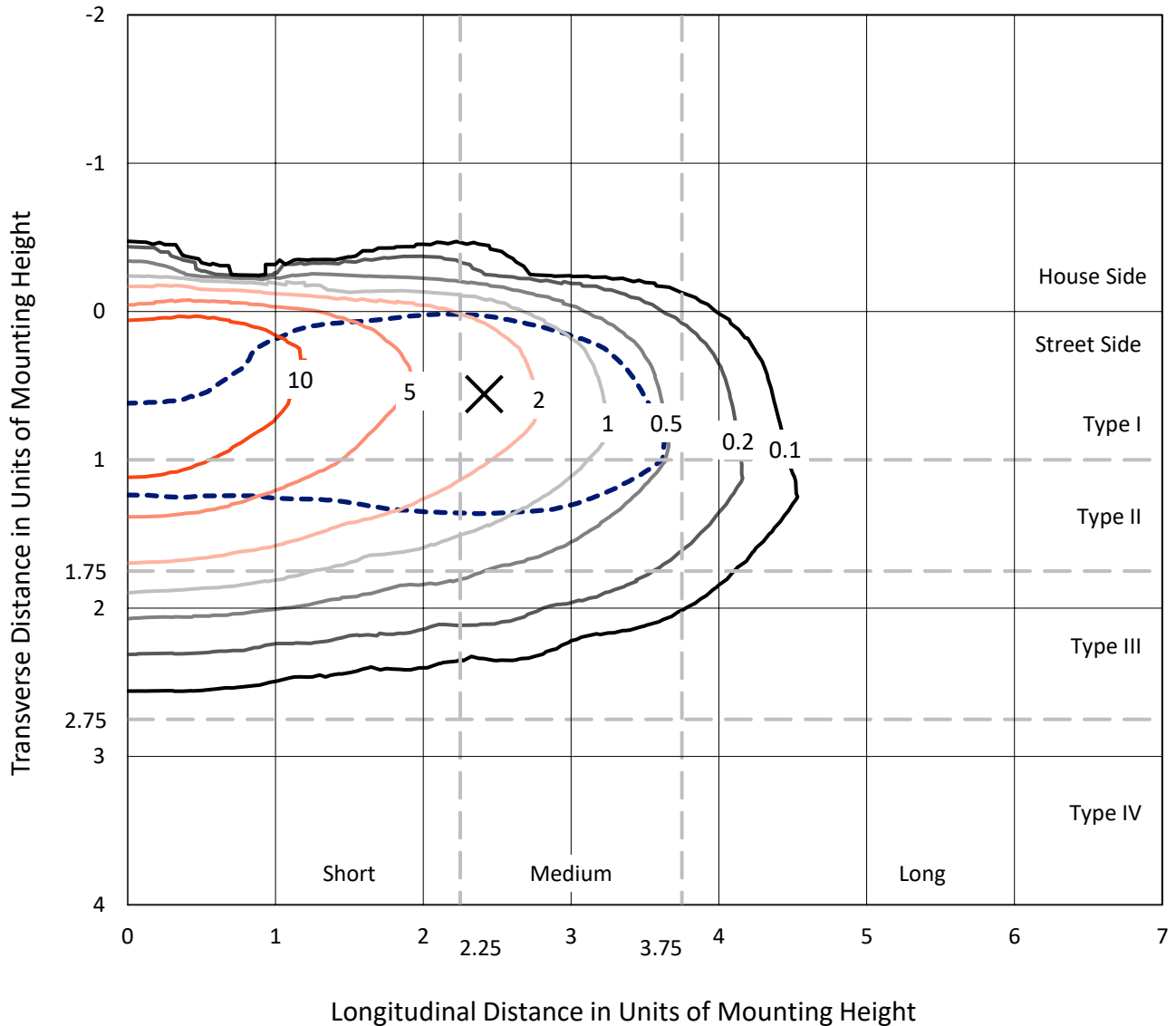
Lumens per Lamp: N/A  
Luminaire Lumens: 6609.5 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 63.8  
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

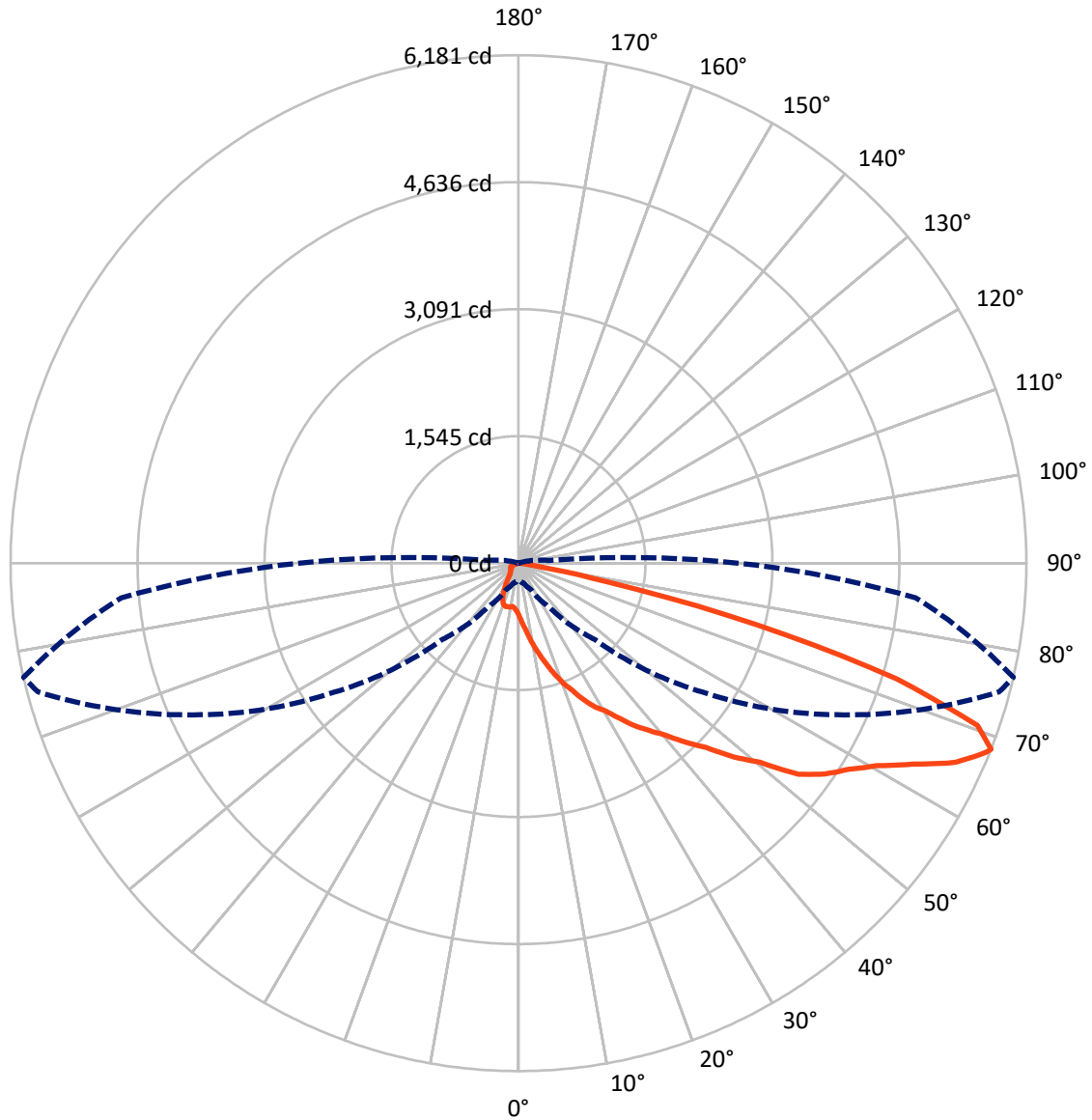
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 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	299.7	0.0	299.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	6309.8	0.0	6309.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	6609.5	0.0	6609.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.1
10°-20°	272.7	4.1
20°-30°	528.5	8.0
30°-40°	921.3	13.9
40°-50°	1349.3	20.4
50°-60°	1585.2	24.0
60°-70°	1338.6	20.3
70°-80°	518.9	7.9
80°-90°	21.1	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°	6609.5	100.0
0°-180°	6609.5	100.0

**Coefficient of Utilization**



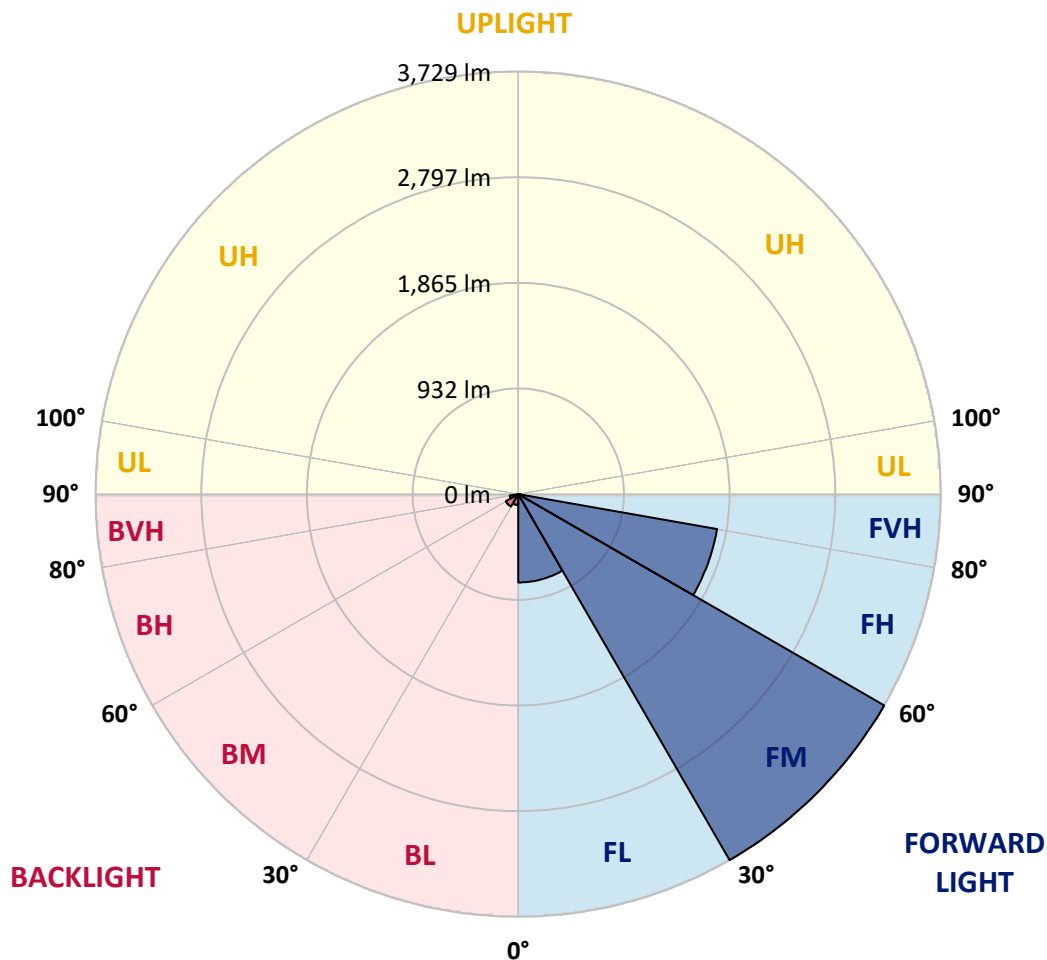
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.3	11.8			
FM (30°-60°)	3729.2	56.4			
FH (60°-80°)	1781.8	27.0			G1/1800
FVH (80°-90°)	19.5	0.3			G1/100
BL (0°-30°)	95.8	1.4	B0/110		
BM (30°-60°)	126.7	1.9	B0/220		
BH (60°-80°)	75.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9
2.5°	961.6	943.4	924.3	918.8	883.3	843.2	805.9	769.5	708.5	709.4	667.5
5°	1239.3	1216.6	1201.1	1197.5	1141.9	1072.7	1016.2	913.3	812.3	789.5	713.0
7.5°	1467.9	1460.6	1437.9	1418.7	1377.8	1293.1	1226.6	1079.1	925.2	899.7	768.6
10°	1606.3	1617.2	1627.3	1602.7	1570.8	1509.8	1418.7	1259.4	1053.6	1021.7	840.5
12.5°	1753.8	1735.6	1742.0	1762.0	1720.1	1706.5	1593.6	1445.1	1203.8	1142.8	931.6
15°	1792.1	1799.4	1814.8	1873.1	1901.4	1862.2	1764.8	1595.4	1359.5	1274.9	1016.2
17.5°	1817.6	1813.9	1833.1	1920.5	1963.3	2000.6	1939.6	1762.9	1495.2	1419.6	1121.9
20°	1849.4	1829.4	1871.3	1926.8	2026.1	2104.4	2101.7	1931.4	1637.3	1557.1	1226.6
22.5°	1967.8	1952.3	1986.0	1991.5	2060.7	2170.0	2196.4	2068.9	1783.0	1684.6	1339.5
25°	2186.4	2214.6	2174.5	2139.9	2160.9	2232.8	2251.9	2190.9	1929.6	1839.4	1452.4
27.5°	2506.0	2502.4	2423.1	2378.5	2328.4	2319.3	2333.0	2304.8	2045.2	1980.6	1545.3
30°	2849.3	2819.2	2746.4	2638.9	2528.8	2460.5	2441.3	2412.2	2180.9	2087.1	1637.3
32.5°	3122.5	3138.9	3057.8	2917.6	2734.6	2642.6	2550.6	2518.7	2330.2	2247.4	1742.9
35°	3373.8	3352.0	3287.3	3168.9	3005.0	2856.6	2712.7	2644.4	2509.6	2427.7	1859.5
37.5°	3559.6	3586.9	3464.0	3351.0	3188.0	3065.1	2924.0	2774.6	2694.5	2585.2	2001.5
40°	3735.3	3692.5	3609.7	3505.8	3354.7	3260.9	3168.0	2934.9	2891.2	2750.0	2161.8
42.5°	3704.4	3707.1	3661.6	3577.8	3468.5	3414.8	3382.9	3129.8	3069.7	2979.5	2318.4
45°	3577.8	3588.7	3604.2	3563.2	3572.3	3518.6	3604.2	3353.8	3294.6	3199.0	2498.7
47.5°	3438.5	3456.7	3453.0	3527.7	3612.4	3630.6	3844.6	3602.4	3576.9	3524.1	2748.2
50°	3207.2	3214.4	3284.6	3420.2	3535.9	3726.2	4024.9	3873.7	3912.9	3809.1	3045.1
52.5°	2812.0	2838.4	3018.7	3212.6	3445.7	3774.5	4146.9	4277.1	4376.4	4269.8	3330.1
55°	2312.0	2348.5	2526.0	2889.4	3230.8	3701.6	4258.0	4490.2	4691.5	4530.3	3503.1
57.5°	1860.4	1864.0	2023.4	2398.5	2925.8	3558.7	4314.5	4594.0	4864.5	4735.2	3714.4
60°	1417.8	1403.2	1546.2	1871.3	2412.2	3207.2	4173.3	4646.8	5080.3	5005.6	3968.4
62.5°	912.4	889.7	1045.4	1362.3	1884.0	2621.6	3891.0	4647.7	5417.2	5389.0	4393.7
65°	451.7	436.2	570.0	835.0	1304.0	2005.2	3488.5	4630.4	5828.8	5847.0	4808.0
67.5°	238.6	244.0	286.8	423.4	752.2	1416.9	2882.1	4427.4	6039.2	6141.1	4908.2
68°	219.5	221.3	255.0	352.4	652.9	1314.0	2738.2	4368.2	6055.5	6181.2	4852.6
70°	178.5	181.2	193.0	221.3	353.3	855.1	2112.6	3865.5	5808.8	5923.5	4392.8
72.5°	142.1	150.3	157.5	169.4	207.6	448.9	1314.0	3012.3	4798.9	4811.7	3419.3
75°	108.4	114.7	129.3	139.3	162.1	246.8	625.6	1836.7	3148.9	2994.1	2014.3
77.5°	83.8	89.2	95.6	109.3	135.7	166.6	191.2	779.5	1337.7	1100.9	569.1
80°	50.1	53.7	74.7	85.6	118.4	112.9	75.6	216.7	271.4	214.0	103.8
82.5°	29.1	31.9	42.8	65.6	82.9	61.0	44.6	67.4	66.5	58.3	34.6
85°	0.9	1.8	23.7	39.2	29.1	16.4	27.3	28.2	23.7	21.9	15.5
87.5°	0.0	0.9	6.4	5.5	6.4	3.6	5.5	7.3	9.1	8.2	6.4
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°	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9	632.9
2.5°	639.2	619.2	574.6	540.9	504.5	482.6	460.8	447.1	439.8	435.3	438.9
5°	655.6	613.8	541.8	478.1	436.2	408.0	379.7	365.2	351.5	344.2	348.8
7.5°	692.1	629.2	509.9	440.7	391.6	347.9	312.3	284.1	267.7	253.1	255.9
10°	736.7	638.3	510.9	418.9	347.9	278.6	228.6	193.0	173.0	160.3	159.4
12.5°	782.2	673.9	514.5	397.0	294.1	209.4	150.3	123.8	112.0	105.6	105.6
15°	851.4	705.7	505.4	357.0	223.1	136.6	102.9	93.8	89.2	83.8	84.7
17.5°	911.5	756.7	500.8	296.9	153.0	98.3	85.6	75.6	71.0	65.6	65.6
20°	992.6	788.6	476.2	229.5	105.6	82.0	69.2	60.1	52.8	48.3	49.2
22.5°	1066.3	813.2	432.5	156.6	81.0	64.7	51.0	41.9	35.5	30.1	31.0
25°	1146.5	837.8	368.8	96.5	57.4	40.1	27.3	20.0	13.7	10.0	10.0
27.5°	1203.8	845.0	285.9	57.4	34.6	18.2	6.4	0.9	0.0	0.0	0.0
30°	1262.1	847.8	197.6	31.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1328.6	846.9	123.8	16.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	1379.6	831.4	59.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1457.0	808.6	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1545.3	767.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1624.5	725.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1714.7	673.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1873.1	652.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2079.8	634.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2207.3	583.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2273.8	530.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2372.1	505.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2517.8	507.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2745.5	532.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2871.1	507.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2764.6	406.1	17.3	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	2672.6	373.3	17.3	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2209.1	243.1	16.4	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1609.0	134.8	13.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	936.1	67.4	10.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	244.0	33.7	8.2	4.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	48.3	21.9	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	15.5	7.3	5.5	4.6	2.7	0.9	0.0	0.0	0.0	0.0
85°	11.8	7.3	7.3	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	1.8	0.9	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)