

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: P482800

Luminaire Tested: **IFLD-S-SA3D-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

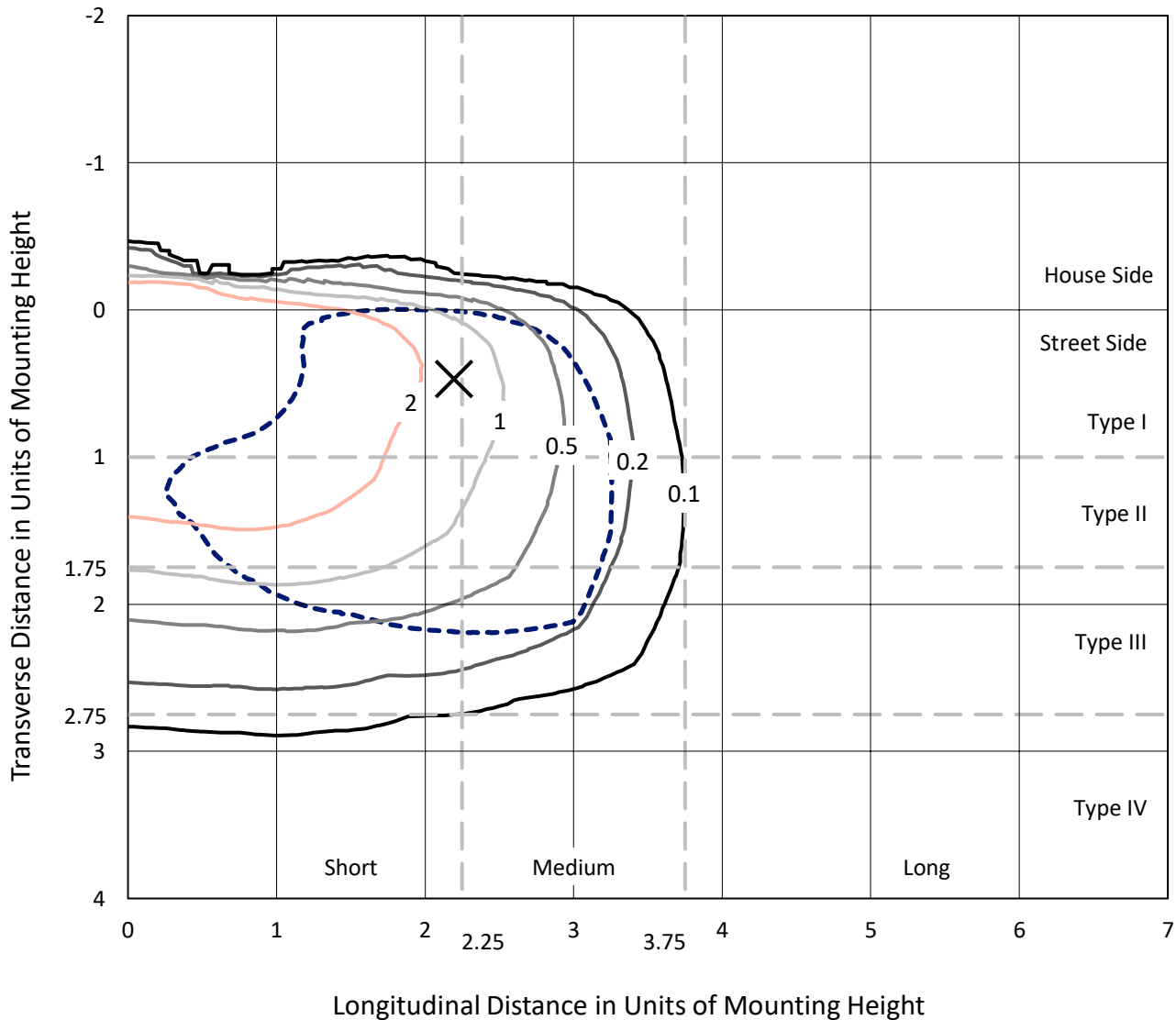
Lumens per Lamp: N/A
Luminaire Lumens: 16478 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

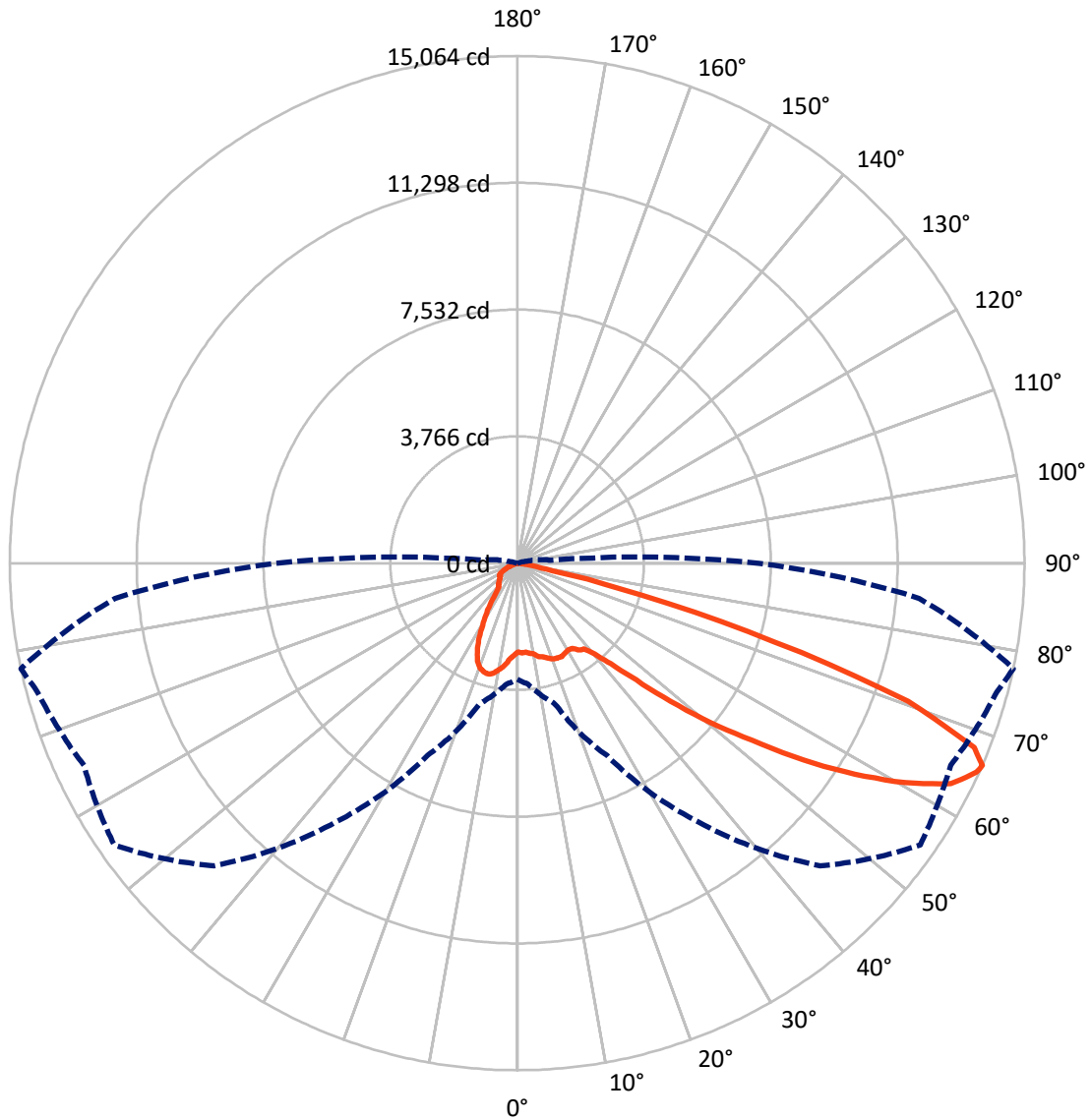
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1158.5	0.0	1158.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15319.6	0.0	15319.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	16478.0	0.0	16478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	1.5
10°-20°	545.0	3.3
20°-30°	779.0	4.7
30°-40°	1333.5	8.1
40°-50°	2406.8	14.6
50°-60°	4116.0	25.0
60°-70°	5066.1	30.7
70°-80°	1915.3	11.6
80°-90°	74.8	0.5
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°	16478.0	100.0
0°-180°	16478.0	100.0

Coefficient of Utilization

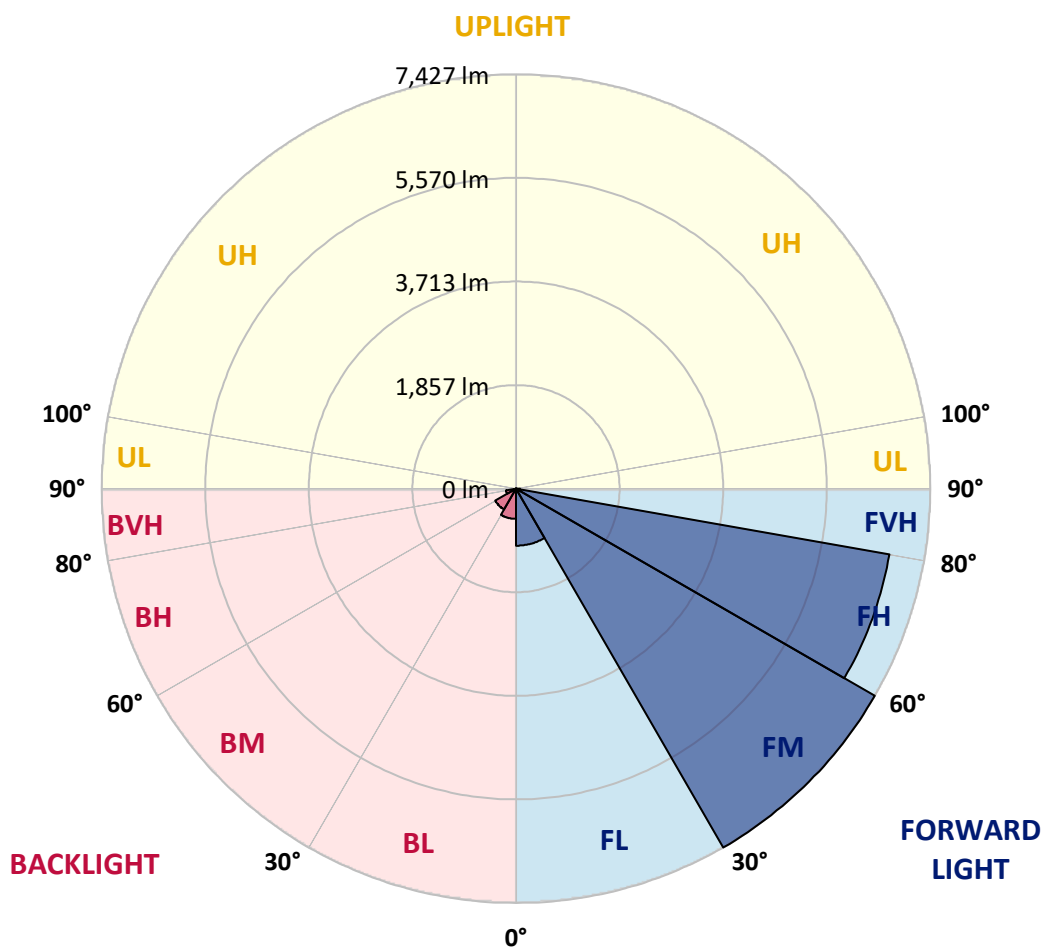


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.0	6.2			
FM (30°-60°)	7427.0	45.1			
FH (60°-80°)	6797.8	41.3			G3/7500
FVH (80°-90°)	71.8	0.4			G1/100
BL (0°-30°)	542.6	3.3	B2/1000		
BM (30°-60°)	429.4	2.6	B1/1000		
BH (60°-80°)	183.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2
2.5°	2427.6	2405.2	2427.6	2460.0	2477.4	2492.3	2544.6	2589.4	2636.8	2669.1	2659.2
5°	2250.8	2293.2	2298.1	2308.1	2335.5	2425.1	2455.0	2532.2	2649.2	2659.2	2704.0
7.5°	2111.4	2098.9	2131.3	2196.1	2265.8	2318.1	2405.2	2539.7	2661.7	2704.0	2791.1
10°	1909.7	1934.6	1969.5	2034.2	2118.9	2248.3	2402.7	2552.1	2726.4	2741.3	2903.2
12.5°	1800.2	1775.3	1830.0	1897.3	2041.7	2161.2	2350.4	2529.7	2766.2	2848.4	3035.1
15°	1710.5	1723.0	1775.3	1820.1	1939.6	2091.5	2313.1	2584.5	2833.5	2890.7	3174.6
17.5°	1673.2	1665.7	1705.6	1750.4	1897.3	2069.1	2298.1	2587.0	2893.2	2967.9	3269.2
20°	1690.6	1705.6	1693.1	1735.4	1827.6	2001.8	2320.5	2634.3	2938.0	3040.1	3371.3
22.5°	1964.5	1944.6	1845.0	1765.3	1770.3	1974.5	2303.1	2664.1	2977.9	3060.0	3441.0
25°	2679.1	2572.0	2325.5	2019.3	1817.6	1899.8	2283.2	2654.2	2970.4	3072.5	3483.3
27.5°	3398.7	3306.5	3065.0	2589.4	2009.3	1869.9	2213.5	2661.7	2933.0	3027.7	3413.6
30°	4158.1	4207.9	3849.3	3284.1	2512.3	2034.2	2168.7	2621.8	2908.1	2987.8	3428.5
32.5°	4937.4	4917.5	4700.8	4088.3	3231.8	2397.7	2240.9	2661.7	2940.5	3017.7	3515.7
35°	5547.4	5477.7	5258.6	4705.8	3826.9	2945.5	2489.9	2850.9	3082.4	3174.6	3640.2
37.5°	5848.7	5878.5	5751.6	5271.0	4479.2	3453.4	2801.1	2850.9	3127.3	3234.3	3841.8
40°	6082.7	6172.3	6125.0	5970.7	5126.6	4026.1	3144.7	3027.7	3353.8	3555.5	4220.3
42.5°	6364.1	6321.7	6600.6	6458.7	5973.2	4748.2	3747.2	3448.4	3889.2	4083.4	4788.0
45°	6513.5	6675.3	6886.9	7068.7	6757.5	5649.5	4534.0	4192.9	4708.3	4954.8	5632.1
47.5°	6896.9	6961.6	7305.2	7534.3	7394.9	6680.3	5729.2	5281.0	5739.1	6127.5	6598.1
50°	7121.0	7033.8	7514.4	7863.0	7942.6	7534.3	6799.8	6451.2	6964.1	7459.6	7501.9
52.5°	6924.3	7173.3	7653.8	8278.8	8500.4	8296.2	8057.2	7905.3	8266.3	8724.4	8520.3
55°	6234.6	6403.9	7574.1	8734.4	9449.0	9354.4	9576.0	9476.4	9839.9	10325.4	9710.4
57.5°	5679.4	5891.0	6919.3	8970.9	10332.9	10611.8	10890.6	10828.4	11266.6	11826.8	10718.8
60°	5333.3	5455.3	6446.2	8911.2	10855.8	11911.5	12541.4	12103.2	12817.8	13246.0	11508.1
62.5°	4733.2	4810.4	5756.5	8119.4	11012.6	12830.2	13898.4	13303.3	13923.3	14446.1	12075.8
65°	3794.5	4003.7	4785.5	6934.2	9976.8	12999.5	14744.9	14045.3	14645.3	14988.9	12247.6
66°	3453.4	3605.3	4322.4	6306.8	9386.8	12718.2	14603.0	14199.6	14749.9	15063.6	11983.7
67.5°	2865.8	2997.8	3568.0	5412.9	8179.2	12098.2	14702.6	14095.1	14829.6	14637.9	11630.1
70°	1897.3	1981.9	2440.1	3660.1	5696.8	9897.2	13636.9	13278.4	13036.9	12317.3	9092.9
72.5°	886.4	1008.4	1523.8	2218.5	3341.4	6924.3	11119.7	10639.1	9142.7	7992.4	5736.6
75°	400.9	455.6	836.6	1272.3	1498.9	3587.9	7173.3	6478.6	4551.5	3779.6	2512.3
77.5°	216.6	246.5	408.3	605.0	545.3	1257.4	3550.5	2953.0	1434.2	1050.7	729.5
80°	166.8	196.7	341.1	346.1	201.7	326.2	1319.6	913.8	358.5	271.4	174.3
82.5°	87.1	124.5	268.9	224.1	102.1	132.0	408.3	254.0	112.0	89.6	74.7
85°	34.9	54.8	151.9	149.4	59.8	44.8	114.5	77.2	44.8	37.3	34.9
87.5°	2.5	2.5	82.2	57.3	37.3	12.4	17.4	17.4	22.4	19.9	24.9
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°	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2
2.5°	2704.0	2733.9	2738.8	2821.0	2838.4	2821.0	2865.8	2858.4	2878.3	2863.3	2835.9
5°	2766.2	2808.6	2890.7	2953.0	2953.0	2903.2	2863.3	2811.0	2733.9	2713.9	2699.0
7.5°	2873.3	3007.7	3082.4	3042.6	2962.9	2776.2	2517.2	2328.0	2168.7	2108.9	2081.5
10°	3062.5	3137.2	3224.4	3062.5	2731.4	2335.5	1899.8	1613.4	1389.3	1339.5	1302.2
12.5°	3184.5	3304.0	3353.8	2953.0	2303.1	1713.0	1239.9	916.3	759.4	639.9	620.0
15°	3343.9	3480.8	3378.7	2656.7	1815.1	1122.9	642.4	400.9	326.2	306.3	306.3
17.5°	3453.4	3602.8	3276.6	2288.2	1287.3	597.6	318.7	276.4	271.4	273.9	268.9
20°	3645.1	3734.8	3122.3	1859.9	769.4	306.3	256.5	246.5	241.5	249.0	244.0
22.5°	3717.4	3799.5	2870.8	1347.0	346.1	204.2	191.7	184.2	189.2	186.7	184.2
25°	3712.4	3754.7	2457.5	771.9	102.1	79.7	72.2	72.2	67.2	69.7	67.2
27.5°	3749.7	3645.1	1994.4	229.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3769.6	3468.4	1419.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3779.6	3376.2	913.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3856.8	3192.0	390.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3909.1	2955.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4125.7	2880.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4407.0	2741.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4797.9	2534.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5315.8	2412.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5701.8	2220.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6192.3	2106.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6774.9	2111.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7305.2	2076.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7576.6	1775.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7519.4	1436.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7320.2	1127.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7183.2	998.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6767.4	799.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5385.6	547.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3426.0	336.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1578.6	154.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	495.5	94.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.5	59.8	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.2	42.3	17.4	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.3	17.4	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.3	10.0	5.0	5.0	2.5	0.0	0.0	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)