

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: P841579

Luminaire Tested: **ARCH4-200-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19126 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 203.7
Input Voltage (V): NR
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



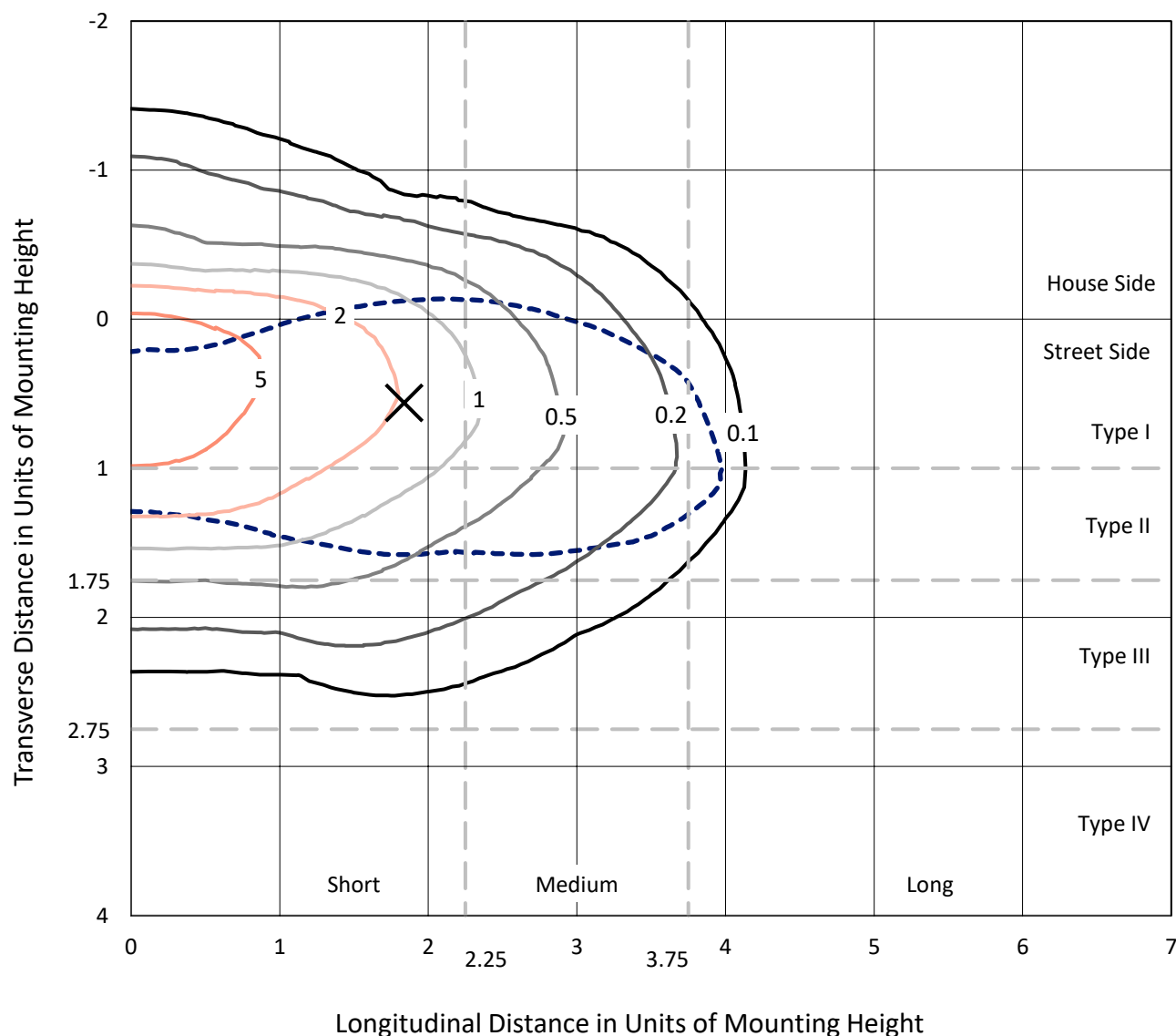
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

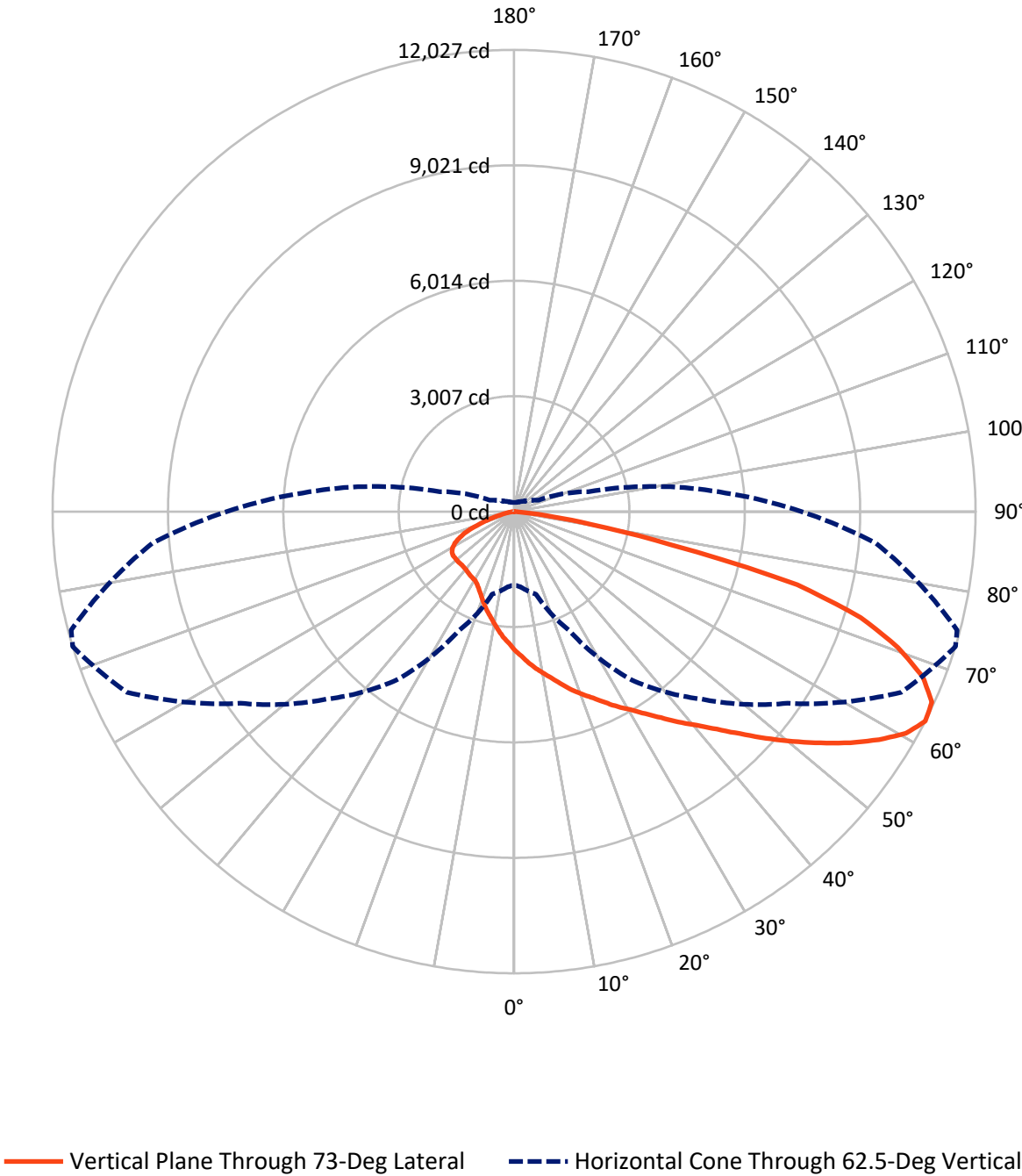


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2964.8	0.0	2964.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16161.2	0.0	16161.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	19126.0	0.0	19126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.8
10°-20°	1055.7	5.5
20°-30°	1757.3	9.2
30°-40°	2651.5	13.9
40°-50°	3706.1	19.4
50°-60°	4093.6	21.4
60°-70°	3566.0	18.6
70°-80°	1801.4	9.4
80°-90°	144.6	0.8
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°	19126.0	100.0
0°-180°	19126.0	100.0

Coefficient of Utilization



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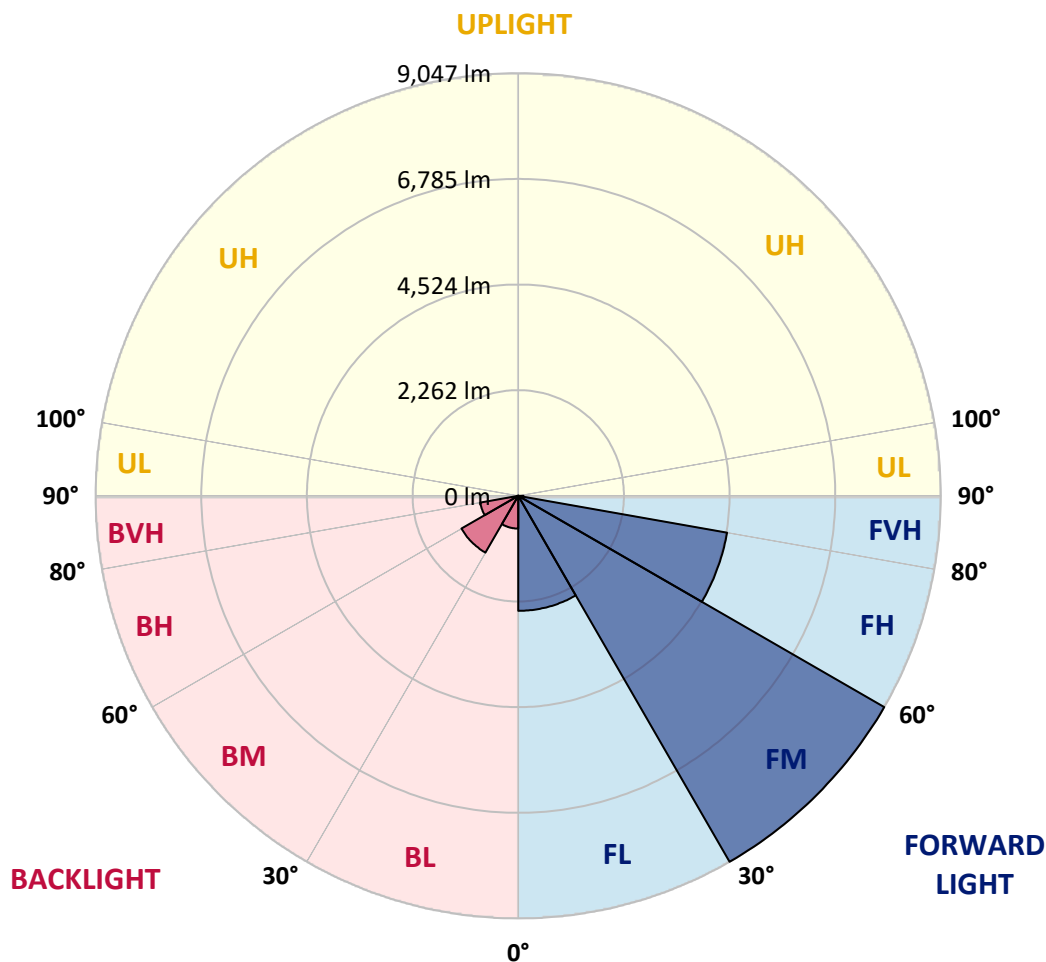
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2462.1	12.9			
FM	(30°-60°)	9047.3	47.3			
FH	(60°-80°)	4539.9	23.7			G2/5000
FVH	(80°-90°)	111.9	0.6			G2/225
BL	(0°-30°)	700.8	3.7	B2/1000		
BM	(30°-60°)	1403.8	7.3	B2/2500		
BH	(60°-80°)	827.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	32.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5
2.5°	4121.6	4167.5	4142.5	4159.2	4075.8	4021.6	3959.1	3838.3	3771.6	3763.2	3684.1
5°	4725.9	4775.9	4734.3	4721.8	4575.9	4450.9	4309.2	4096.6	3954.9	3929.9	3754.9
7.5°	5330.2	5376.1	5326.1	5288.5	5092.7	4871.8	4663.4	4350.9	4130.0	4088.3	3813.3
10°	5755.3	5797.0	5759.5	5722.0	5517.8	5292.7	4996.8	4588.4	4288.3	4221.7	3850.8
12.5°	6076.2	6101.2	6084.5	6051.2	5859.5	5617.8	5334.4	4855.1	4467.5	4384.2	3909.1
15°	6338.8	6380.4	6359.6	6334.6	6151.2	5909.5	5638.6	5134.3	4675.9	4571.7	3996.6
17.5°	6513.8	6543.0	6547.1	6547.1	6384.6	6147.0	5884.5	5388.6	4884.3	4750.9	4080.0
20°	6593.0	6626.3	6647.1	6680.5	6547.1	6342.9	6076.2	5605.3	5080.2	4930.1	4159.2
22.5°	6630.5	6659.6	6713.8	6788.8	6680.5	6509.6	6263.7	5805.3	5276.0	5117.7	4250.8
25°	6659.6	6697.2	6776.3	6918.0	6843.0	6697.2	6484.6	6034.5	5509.4	5346.9	4384.2
27.5°	6738.8	6784.7	6859.7	7030.6	6938.9	6868.0	6718.0	6280.4	5755.3	5588.6	4546.7
30°	7013.9	7051.4	7047.2	7155.6	7043.1	7022.2	6918.0	6518.0	5992.9	5826.2	4738.4
32.5°	7514.0	7551.5	7459.8	7418.1	7172.2	7176.4	7134.7	6772.2	6276.2	6105.4	4959.3
35°	8051.6	8093.3	7972.4	7901.6	7489.0	7368.1	7389.0	7088.9	6593.0	6422.1	5234.4
37.5°	8530.9	8580.9	8476.7	8372.5	7955.7	7676.5	7672.3	7443.1	6955.5	6780.5	5538.6
40°	8793.4	8851.7	8914.3	8855.9	8418.3	8109.9	7976.6	7805.7	7313.9	7134.7	5867.8
42.5°	8918.4	9081.0	9193.5	9156.0	8797.6	8485.0	8326.6	8184.9	7751.5	7576.5	6259.6
45°	8568.4	8572.5	8810.1	9014.3	8947.6	8739.2	8710.1	8610.0	8251.6	8084.9	6701.3
47.5°	8130.8	8097.4	8264.1	8626.7	8814.2	8868.4	9039.3	9081.0	8822.6	8655.9	7151.4
50°	7080.6	7101.4	7643.2	8164.1	8530.9	8880.9	9272.7	9564.4	9410.2	9251.8	7626.5
52.5°	5759.5	5809.5	6430.4	7576.5	8155.8	8755.9	9410.2	10047.8	10010.3	9860.3	8101.6
55°	4617.6	4696.8	5355.2	6597.1	7676.5	8476.7	9468.5	10489.6	10631.3	10493.7	8568.4
57.5°	3529.9	3613.2	4167.5	5442.7	7063.9	8022.4	9426.9	10877.1	11210.5	11123.0	8997.6
60°	2658.9	2742.2	3096.4	4413.4	6297.1	7514.0	9218.5	11131.4	11731.5	11639.8	9310.2
62.5°	1904.5	1971.2	2233.8	3434.0	5363.6	6909.7	8705.9	11135.5	12027.4	11952.4	9460.2
65°	1371.1	1371.1	1583.6	2450.5	4488.4	6184.6	7930.7	10622.9	11964.9	11944.0	9356.0
67.5°	987.7	996.0	1166.9	1712.8	3579.9	5305.2	6926.4	9710.3	11481.4	11585.6	8980.9
70°	700.1	721.0	800.2	1196.1	2704.7	4188.3	5851.2	8514.2	10610.4	10793.8	8255.8
72.5°	541.8	554.3	608.5	833.5	1975.4	3113.1	4663.4	7180.6	9447.7	9656.1	7268.1
75°	416.7	429.3	470.9	612.6	1416.9	2183.8	3313.2	5571.9	7618.2	7989.1	5838.7
77.5°	304.2	320.9	350.1	445.9	825.2	1387.8	2008.7	3134.0	4205.0	4380.0	3058.9
80°	141.7	162.5	204.2	287.6	445.9	654.3	712.6	1208.6	2021.2	2112.9	1658.7
82.5°	79.2	100.0	116.7	175.0	225.0	233.4	241.7	304.2	762.7	841.8	696.0
85°	37.5	50.0	54.2	75.0	75.0	66.7	79.2	58.3	125.0	150.0	145.9
87.5°	0.0	4.2	8.3	20.8	16.7	12.5	12.5	12.5	12.5	16.7	12.5
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°	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5	3621.5
2.5°	3646.6	3592.4	3467.4	3359.0	3288.1	3225.6	3142.3	3104.8	3038.1	3050.6	3013.1
5°	3667.4	3567.4	3346.5	3142.3	2992.3	2858.9	2713.0	2629.7	2538.0	2529.7	2500.5
7.5°	3679.9	3525.7	3209.0	2921.4	2692.2	2488.0	2292.1	2183.8	2071.2	2046.2	2021.2
10°	3667.4	3463.2	3067.3	2692.2	2388.0	2133.8	1912.9	1775.4	1658.7	1629.5	1604.5
12.5°	3679.9	3429.8	2933.9	2479.7	2117.1	1829.5	1579.5	1437.8	1329.4	1300.3	1283.6
15°	3709.1	3409.0	2821.4	2288.0	1875.4	1554.5	1308.6	1187.7	1100.2	1071.0	1062.7
17.5°	3734.1	3388.2	2700.5	2100.4	1633.7	1312.8	1100.2	1000.2	925.2	896.0	887.7
20°	3767.4	3359.0	2579.7	1921.2	1421.1	1121.1	933.5	846.0	787.7	766.8	762.7
22.5°	3796.6	3338.2	2467.2	1742.0	1225.2	966.9	808.5	737.6	696.0	675.1	675.1
25°	3871.6	3346.5	2371.3	1575.3	1079.4	846.0	712.6	658.5	625.1	612.6	612.6
27.5°	3959.1	3379.8	2296.3	1433.6	954.4	754.3	646.0	600.1	583.4	566.8	570.9
30°	4084.1	3446.5	2246.3	1316.9	862.7	683.5	591.8	558.4	541.8	537.6	537.6
32.5°	4242.5	3554.9	2242.1	1241.9	796.0	629.3	554.3	525.1	516.8	512.6	512.6
35°	4430.0	3650.7	2217.1	1208.6	754.3	591.8	525.1	504.3	500.1	500.1	500.1
37.5°	4655.1	3809.1	2200.4	1162.7	733.5	570.9	504.3	487.6	487.6	487.6	487.6
40°	4888.5	3938.3	2175.4	1121.1	725.1	558.4	491.8	470.9	470.9	470.9	470.9
42.5°	5167.7	4125.8	2167.1	1100.2	712.6	550.1	475.1	450.1	454.3	454.3	458.4
45°	5505.3	4338.4	2162.9	1079.4	708.5	541.8	458.4	429.3	433.4	429.3	429.3
47.5°	5847.0	4584.2	2175.4	1066.9	704.3	533.4	445.9	408.4	408.4	404.2	404.2
50°	6205.4	4809.3	2183.8	1054.4	696.0	516.8	425.1	391.7	383.4	375.1	379.2
52.5°	6543.0	5017.7	2187.9	1033.5	671.0	491.8	408.4	370.9	358.4	345.9	350.1
55°	6880.5	5217.7	2196.3	1008.5	637.6	466.8	387.6	350.1	333.4	316.7	316.7
57.5°	7184.8	5392.7	2175.4	946.0	600.1	441.8	366.7	325.1	300.1	283.4	283.4
60°	7393.1	5517.8	2112.9	854.3	550.1	412.6	345.9	300.1	270.9	258.4	258.4
62.5°	7493.1	5538.6	2000.4	704.3	487.6	383.4	320.9	275.1	250.0	241.7	241.7
65°	7397.3	5446.9	1825.4	529.3	420.9	350.1	295.9	254.2	229.2	208.4	208.4
67.5°	7063.9	5188.5	1583.6	400.1	358.4	316.7	270.9	233.4	204.2	187.5	187.5
70°	6392.9	4650.9	1225.2	320.9	304.2	275.1	245.9	208.4	183.4	162.5	162.5
72.5°	5513.6	3942.4	862.7	258.4	258.4	233.4	208.4	183.4	158.4	141.7	141.7
75°	4230.0	2917.2	579.3	208.4	212.5	195.9	170.9	150.0	133.4	120.9	120.9
77.5°	2308.8	1442.0	354.2	154.2	158.4	150.0	133.4	120.9	112.5	100.0	100.0
80°	1121.1	633.5	204.2	108.4	112.5	108.4	100.0	87.5	87.5	79.2	79.2
82.5°	470.9	237.5	108.4	75.0	75.0	66.7	62.5	62.5	62.5	58.3	58.3
85°	116.7	45.8	45.8	41.7	41.7	41.7	37.5	37.5	37.5	29.2	33.3
87.5°	16.7	16.7	16.7	16.7	16.7	16.7	12.5	4.2	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)