

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: P841865

Luminaire Tested: **ARCH4-240-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21741 lumens
Efficiency: N/A
Efficacy: 90.5 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

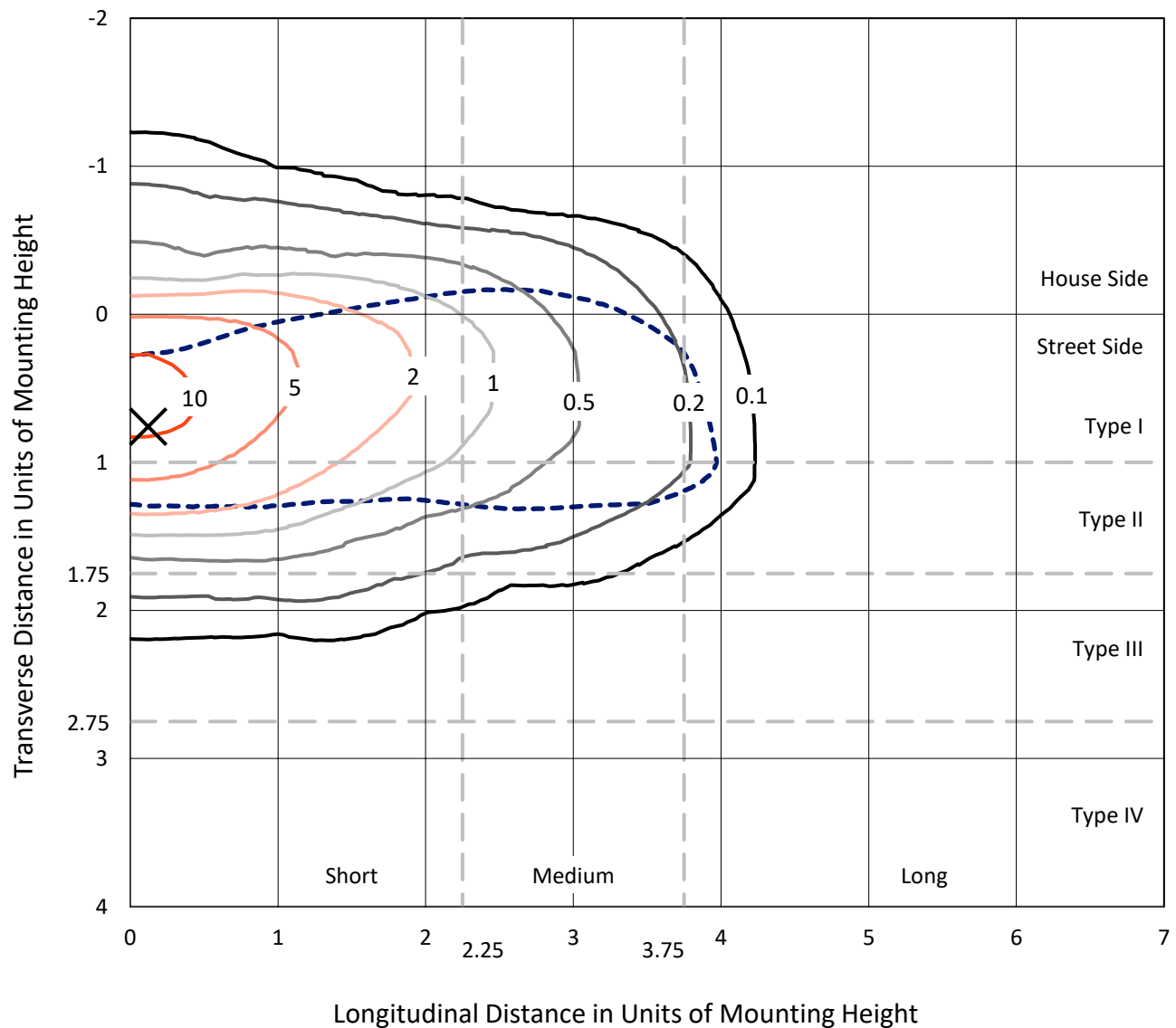
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

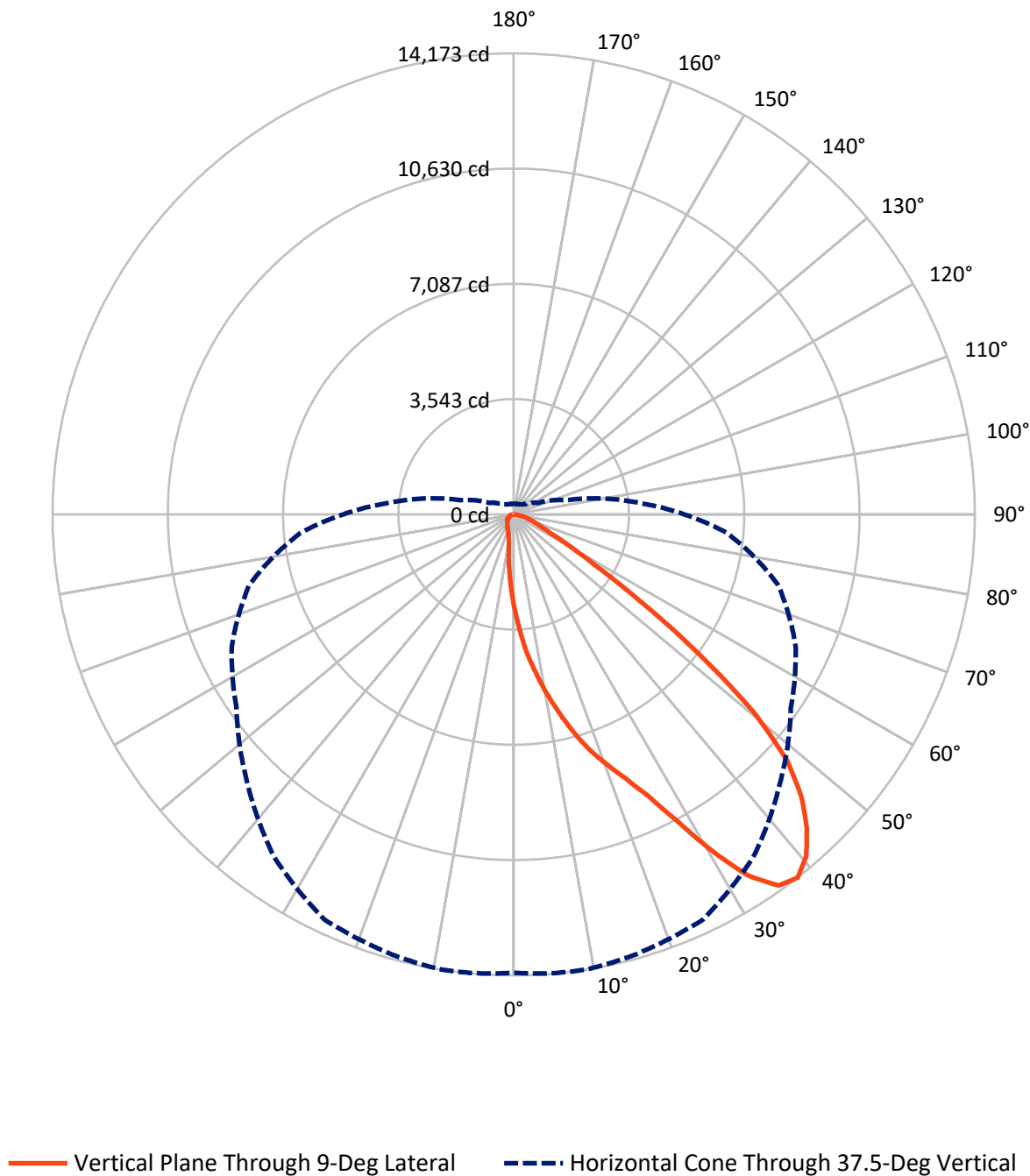
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	2644.1	0.0	2644.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19096.9	0.0	19096.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	21741.0	0.0	21741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.3
10°-20°	1004.0	4.6
20°-30°	2063.0	9.5
30°-40°	3646.6	16.8
40°-50°	4844.2	22.3
50°-60°	4594.4	21.1
60°-70°	3505.1	16.1
70°-80°	1699.3	7.8
80°-90°	95.7	0.4
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°	21741.0	100.0
0°-180°	21741.0	100.0

Coefficient of Utilization



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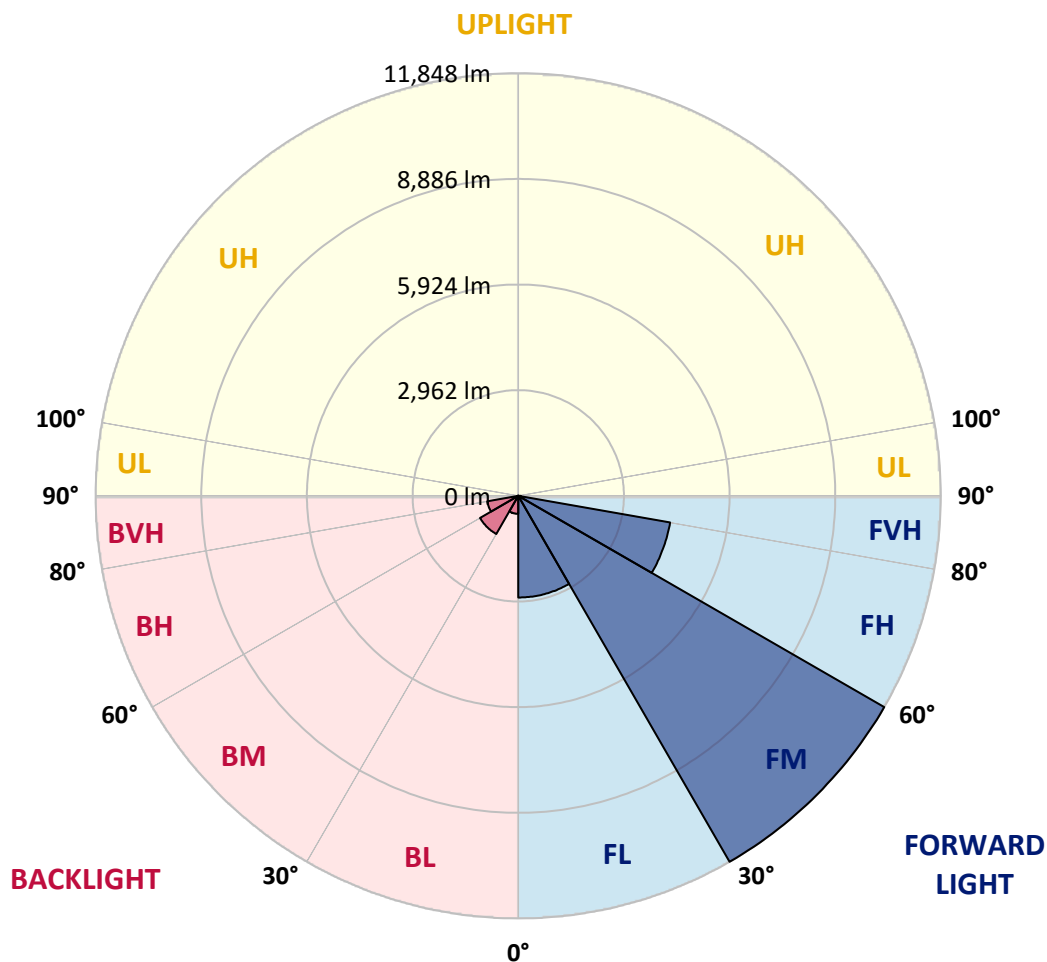
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2851.3	13.1			
FM	(30°-60°)	11847.8	54.5			
FH	(60°-80°)	4322.0	19.9			G2/5000
FVH	(80°-90°)	75.7	0.3			G1/100
BL	(0°-30°)	504.6	2.3	B2/1000		
BM	(30°-60°)	1237.3	5.7	B2/2500		
BH	(60°-80°)	882.3	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.9	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9
2.5°	3561.1	3498.7	3570.1	3561.1	3498.7	3458.5	3333.5	3293.4	3146.1	3039.0	2945.3
5°	4293.0	4230.5	4293.0	4275.1	4185.9	4087.7	3882.4	3748.6	3485.3	3253.2	3043.5
7.5°	4899.9	4899.9	4926.7	4931.1	4824.0	4672.3	4417.9	4217.1	3846.7	3489.7	3155.0
10°	5555.9	5560.4	5618.4	5578.2	5435.4	5230.1	4908.8	4654.5	4208.2	3739.6	3262.1
12.5°	6256.5	6261.0	6278.8	6261.0	6091.4	5828.1	5439.9	5105.2	4592.0	4025.2	3409.4
15°	6957.2	6961.6	6983.9	6952.7	6765.3	6457.3	6015.5	5605.0	4998.1	4346.5	3587.9
17.5°	7613.1	7622.1	7639.9	7599.8	7403.4	7037.5	6586.8	6091.4	5431.0	4690.2	3788.7
20°	8202.2	8211.1	8224.5	8171.0	7974.6	7608.7	7122.3	6604.6	5872.7	5042.7	4007.4
22.5°	8795.7	8804.7	8827.0	8755.6	8536.9	8117.4	7639.9	7104.4	6341.3	5431.0	4261.8
25°	9554.4	9563.3	9581.1	9478.5	9179.5	8688.6	8184.4	7635.5	6850.0	5868.3	4574.1
27.5°	10665.5	10656.6	10656.6	10469.2	9956.0	9317.9	8733.3	8175.4	7398.9	6336.9	4917.8
30°	12040.0	12017.7	12004.3	11750.0	11018.1	10027.4	9295.5	8679.7	7925.5	6832.2	5288.1
32.5°	13271.7	13271.7	13244.9	12977.2	12200.7	10982.4	9893.5	9170.6	8434.3	7332.0	5671.9
35°	13999.1	14030.3	14016.9	13816.1	13249.4	12008.8	10701.3	9759.6	8969.8	7854.1	6131.6
37.5°	14097.3	14159.7	14173.1	14052.6	13753.7	12847.7	11598.2	10397.8	9558.8	8416.4	6577.8
40°	13700.1	13834.0	13834.0	13816.1	13709.0	13244.9	12352.4	11138.6	10165.7	9001.0	7028.6
42.5°	13088.7	13227.1	13209.2	13276.2	13249.4	13151.2	12776.3	11830.3	10772.7	9603.5	7439.1
45°	12289.9	12432.7	12397.0	12517.5	12571.1	12678.2	12731.7	12312.2	11370.6	10259.5	7898.8
47.5°	11009.2	11250.1	11303.7	11517.9	11741.0	12075.7	12330.1	12486.3	11928.5	10964.5	8398.6
50°	9117.0	9456.2	9563.3	10014.0	10625.4	11317.1	11727.6	12272.1	12321.2	11687.5	8938.5
52.5°	6528.7	6921.5	7086.6	7827.4	9085.8	10290.7	11031.5	11799.0	12472.9	12379.2	9523.1
55°	4221.6	4556.3	4716.9	5413.1	7086.6	8978.7	10210.4	11187.7	12388.1	13012.9	10192.5
57.5°	2601.7	2793.6	2900.7	3498.7	5038.2	7296.3	9134.9	10625.4	12129.3	13561.8	10888.7
60°	1753.8	1865.4	1918.9	2200.0	3422.8	5453.3	7657.8	10036.3	11790.1	13932.2	11522.4
62.5°	1164.7	1200.4	1254.0	1428.0	2258.1	3828.9	5881.7	8983.2	11535.8	13954.5	11990.9
65°	901.4	919.3	941.6	1017.5	1392.3	2677.5	4136.8	7278.5	11156.4	13481.4	12138.2
67.5°	709.5	727.4	754.2	794.3	1008.5	1816.3	2815.9	5332.8	10379.9	12740.6	11897.2
70°	557.8	571.2	589.1	624.8	785.4	1316.5	1860.9	3543.3	8813.6	12035.6	11138.6
72.5°	441.8	455.2	473.0	508.7	638.1	963.9	1276.3	2209.0	6796.5	11174.3	9679.3
75°	348.1	357.0	370.4	406.1	513.2	749.7	865.7	1320.9	4618.8	9599.0	7541.7
77.5°	174.0	214.2	245.4	281.1	374.9	517.7	575.7	731.9	1950.1	4926.7	3596.8
80°	102.6	125.0	133.9	156.2	245.4	312.4	312.4	294.5	615.8	1892.1	1468.2
82.5°	58.0	80.3	84.8	89.3	147.3	178.5	142.8	107.1	125.0	633.7	428.4
85°	17.9	26.8	31.2	35.7	49.1	53.6	49.1	44.6	35.7	62.5	40.2
87.5°	0.0	0.0	0.0	0.0	4.5	8.9	8.9	8.9	13.4	13.4	13.4
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°	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9	2873.9
2.5°	2891.7	2833.7	2722.2	2619.5	2521.4	2450.0	2383.0	2320.5	2275.9	2240.2	2235.7
5°	2931.9	2815.9	2601.7	2400.9	2217.9	2066.2	1936.8	1834.1	1758.3	1704.7	1700.2
7.5°	2985.5	2807.0	2481.2	2182.2	1910.0	1691.3	1503.9	1365.5	1267.4	1227.2	1196.0
10°	3030.1	2798.0	2360.7	1963.5	1606.5	1329.8	1106.7	968.4	897.0	870.2	856.8
12.5°	3106.0	2807.0	2258.1	1762.7	1343.2	1017.5	847.9	772.0	740.8	718.5	714.0
15°	3217.5	2847.1	2159.9	1566.4	1075.5	821.1	722.9	673.8	642.6	638.1	633.7
17.5°	3329.1	2882.8	2070.6	1365.5	892.5	714.0	647.1	606.9	584.6	580.1	580.1
20°	3458.5	2927.4	1972.5	1173.7	763.1	642.6	589.1	557.8	531.0	526.6	526.6
22.5°	3610.2	2989.9	1878.7	1004.1	678.3	589.1	544.4	508.7	486.4	482.0	482.0
25°	3815.5	3083.6	1802.9	879.1	620.3	544.4	504.3	473.0	455.2	446.3	446.3
27.5°	4043.1	3213.1	1749.3	803.3	580.1	508.7	468.6	441.8	423.9	415.0	415.0
30°	4297.5	3355.9	1713.6	772.0	557.8	477.5	441.8	415.0	392.7	388.2	388.2
32.5°	4578.6	3521.0	1691.3	776.5	553.4	455.2	415.0	388.2	370.4	361.5	361.5
35°	4891.0	3703.9	1677.9	803.3	562.3	437.3	392.7	365.9	348.1	339.2	339.2
37.5°	5239.1	3918.1	1677.9	830.0	584.6	432.9	370.4	343.6	330.2	321.3	321.3
40°	5564.8	4145.7	1695.8	861.3	606.9	432.9	352.5	330.2	312.4	303.5	303.5
42.5°	5819.2	4275.1	1709.2	892.5	620.3	428.4	334.7	312.4	299.0	290.1	290.1
45°	6109.3	4413.5	1682.4	905.9	620.3	419.5	321.3	299.0	285.6	276.7	276.7
47.5°	6430.6	4583.1	1677.9	914.8	606.9	401.6	307.9	285.6	276.7	267.8	267.8
50°	6756.3	4770.5	1686.9	910.4	589.1	374.9	290.1	276.7	263.3	254.4	254.4
52.5°	7126.7	4966.8	1704.7	901.4	548.9	343.6	276.7	263.3	249.9	241.0	236.5
55°	7537.3	5181.0	1740.4	883.6	495.3	312.4	263.3	249.9	232.1	223.1	218.7
57.5°	8010.3	5444.3	1780.6	847.9	437.3	285.6	249.9	232.1	205.3	191.9	187.4
60°	8461.0	5743.3	1825.2	763.1	379.3	258.8	236.5	209.7	183.0	174.0	169.6
62.5°	8885.0	6037.9	1847.5	611.4	321.3	236.5	223.1	191.9	165.1	156.2	151.7
65°	9157.2	6359.2	1798.4	415.0	263.3	218.7	205.3	178.5	151.7	138.3	138.3
67.5°	9175.1	6510.9	1628.8	272.2	214.2	196.4	187.4	160.7	133.9	125.0	120.5
70°	8724.3	6283.3	1245.1	214.2	178.5	169.6	169.6	142.8	116.0	107.1	102.6
72.5°	7689.0	5564.8	794.3	174.0	151.7	142.8	142.8	120.5	102.6	89.3	84.8
75°	6069.1	4293.0	423.9	142.8	125.0	120.5	111.6	98.2	84.8	75.9	71.4
77.5°	2789.1	1892.1	196.4	102.6	93.7	93.7	84.8	71.4	66.9	58.0	58.0
80°	1102.3	642.6	98.2	66.9	62.5	62.5	62.5	49.1	49.1	40.2	35.7
82.5°	303.5	133.9	49.1	40.2	40.2	40.2	35.7	31.2	31.2	26.8	26.8
85°	31.2	22.3	22.3	22.3	22.3	17.9	17.9	13.4	8.9	8.9	8.9
87.5°	13.4	13.4	13.4	13.4	13.4	8.9	4.5	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)