

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: P841799

Luminaire Tested: **ARCH4-230-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20965 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 231.2
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

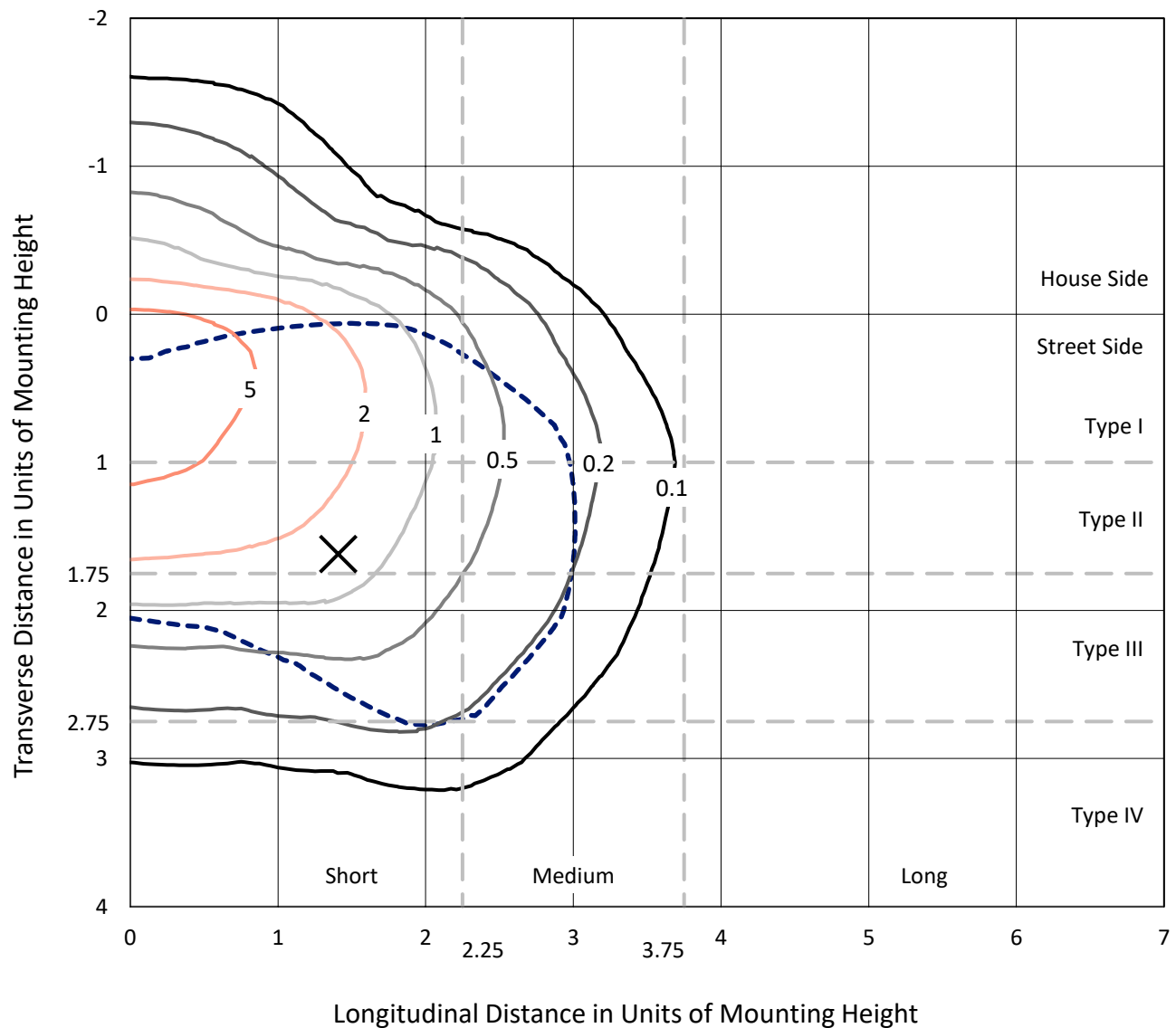


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

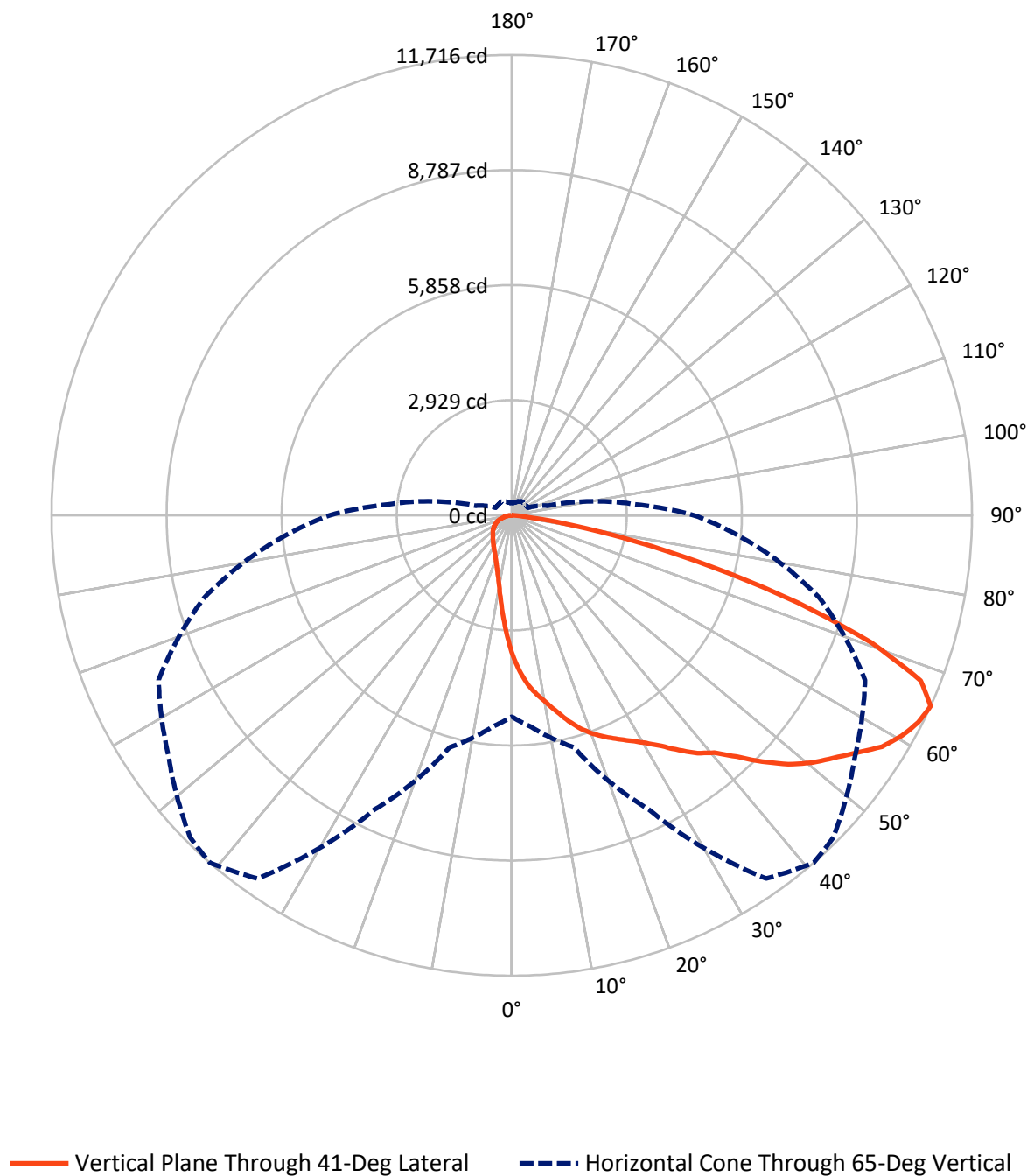


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.6	0.0	2691.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	18273.4	0.0	18273.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	20965.0	0.0	20965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	1.6
10°-20°	998.1	4.8
20°-30°	1717.0	8.2
30°-40°	2604.1	12.4
40°-50°	3815.2	18.2
50°-60°	4817.7	23.0
60°-70°	4517.5	21.5
70°-80°	2013.4	9.6
80°-90°	149.2	0.7
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°	20965.0	100.0
0°-180°	20965.0	100.0

Coefficient of Utilization



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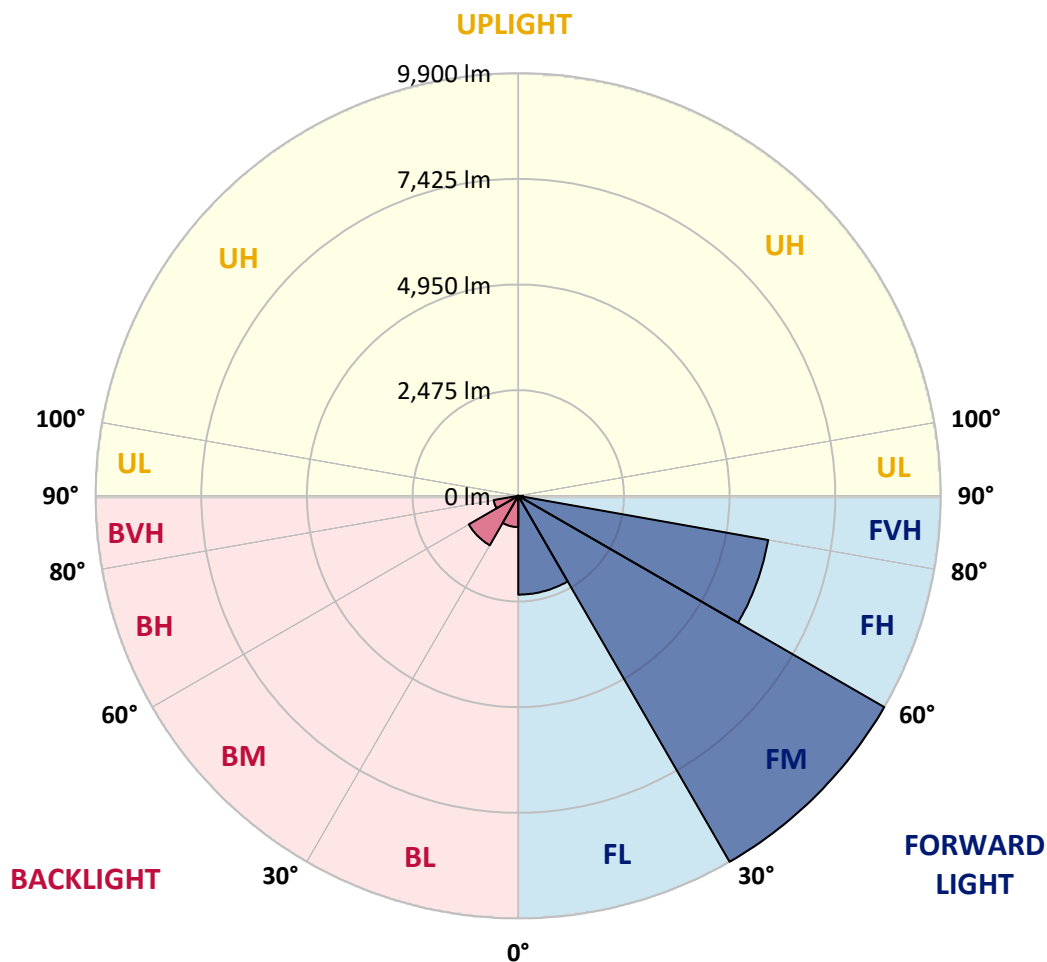
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2315.3	11.0			
FM	(30°-60°)	9900.5	47.2			
FH	(60°-80°)	5946.2	28.4			G3/7500
FVH	(80°-90°)	111.4	0.5			G2/225
BL	(0°-30°)	732.6	3.5	B2/1000		
BM	(30°-60°)	1336.5	6.4	B2/2500		
BH	(60°-80°)	584.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	37.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3
2.5°	4120.6	4107.3	4098.4	4049.8	4049.8	3983.5	3987.9	3926.0	3850.9	3731.5	3603.3
5°	4509.6	4491.9	4469.8	4421.2	4403.5	4337.2	4328.4	4239.9	4111.7	3903.9	3674.0
7.5°	4850.1	4832.4	4801.4	4730.7	4682.0	4602.5	4580.4	4465.4	4323.9	4067.5	3744.8
10°	5159.5	5146.3	5106.5	5018.1	4951.7	4854.5	4814.7	4659.9	4483.1	4200.1	3802.2
12.5°	5473.4	5455.8	5402.7	5327.5	5248.0	5133.0	5084.4	4885.4	4659.9	4346.0	3886.2
15°	5765.2	5738.7	5698.9	5619.3	5548.6	5438.1	5385.0	5150.7	4876.6	4509.6	3996.8
17.5°	5955.4	5933.2	5897.9	5853.7	5796.2	5712.2	5659.1	5429.2	5093.2	4668.8	4111.7
20°	6070.3	6061.5	6048.2	6021.7	5995.1	5937.7	5897.9	5681.2	5327.5	4823.5	4222.2
22.5°	6158.7	6149.9	6145.5	6145.5	6149.9	6127.8	6101.3	5915.6	5553.0	4987.1	4323.9
25°	6295.8	6291.4	6282.5	6273.7	6304.6	6309.0	6300.2	6172.0	5836.0	5203.7	4452.1
27.5°	6485.9	6472.6	6454.9	6446.1	6477.1	6499.2	6516.8	6428.4	6136.6	5424.8	4598.0
30°	6777.7	6737.9	6693.7	6662.7	6684.8	6720.2	6760.0	6707.0	6446.1	5698.9	4748.4
32.5°	7122.5	7073.9	6972.2	6914.8	6972.2	6998.8	7029.7	7003.2	6768.9	5995.1	4898.7
35°	7542.6	7485.1	7379.0	7295.0	7396.7	7339.2	7325.9	7299.4	7073.9	6286.9	5066.7
37.5°	8241.1	8157.1	7989.1	7803.4	7803.4	7679.6	7631.0	7551.4	7348.0	6547.8	5230.3
40°	9050.2	8939.7	8723.0	8448.9	8196.9	7940.5	7909.5	7852.0	7670.8	6848.4	5416.0
42.5°	9938.8	9726.6	9426.0	9094.4	8687.7	8395.9	8325.1	8161.5	7984.7	7153.5	5601.7
45°	10924.8	10482.7	10045.0	9877.0	9204.9	8939.7	8807.0	8510.8	8311.8	7471.8	5796.2
47.5°	11083.9	10739.1	10447.3	10420.8	9686.8	9465.8	9315.5	8891.0	8665.5	7812.3	5999.6
50°	10995.5	10787.7	10818.7	10712.6	10040.5	9894.6	9779.7	9297.8	9014.8	8139.4	6185.3
52.5°	10624.1	10739.1	10915.9	10721.4	10376.5	10257.2	10199.7	9735.5	9342.0	8440.1	6353.3
55°	10182.0	10261.6	10641.8	10880.6	10765.6	10659.5	10606.4	10243.9	9664.7	8692.1	6508.0
57.5°	9536.5	9501.2	9921.2	10854.0	11172.4	11110.5	11053.0	10743.5	9965.4	8873.3	6605.3
60°	8568.3	8493.1	9023.7	10323.5	11305.0	11402.3	11375.7	11075.1	10195.3	8868.9	6565.5
62.5°	6892.6	7078.3	7812.3	9456.9	11362.5	11610.1	11561.4	11101.6	10270.4	8612.5	6313.5
65°	5124.2	5389.4	6110.1	8263.2	11282.9	11716.2	11583.5	10668.3	9921.2	8104.1	5760.8
67.5°	3691.7	3926.0	4452.1	6799.8	10518.0	11229.8	11075.1	9961.0	9116.5	7383.4	4996.0
70°	2524.5	2692.5	3050.6	4951.7	8979.4	9708.9	9611.7	8904.3	7847.6	6525.7	4058.7
72.5°	1781.7	1852.5	2082.4	3267.3	6821.9	7617.7	7502.8	7325.9	6304.6	5424.8	3156.7
75°	1335.2	1379.4	1503.2	2113.3	4602.5	5278.9	5172.8	5274.5	4708.6	4107.3	2299.0
77.5°	504.0	548.2	853.3	1348.5	2723.5	3240.7	3134.6	3196.5	2617.3	2073.5	1145.1
80°	137.1	145.9	283.0	641.1	1237.9	1613.7	1467.8	1260.0	972.7	955.0	605.7
82.5°	57.5	66.3	128.2	344.9	442.1	442.1	371.4	459.8	371.4	446.5	291.8
85°	22.1	26.5	30.9	88.4	57.5	61.9	66.3	88.4	75.2	92.8	66.3
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	4.4	8.8	13.3	13.3	13.3
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°	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3
2.5°	3550.2	3501.6	3430.8	3315.9	3196.5	3130.2	3046.2	3032.9	2944.5	2935.7	2900.3
5°	3572.3	3470.6	3289.4	3068.3	2851.7	2683.7	2559.9	2493.6	2365.3	2365.3	2330.0
7.5°	3590.0	3430.8	3139.0	2811.9	2515.7	2290.2	2122.2	2051.4	1936.5	1927.6	1901.1
10°	3594.4	3382.2	2975.5	2551.0	2188.5	1958.6	1795.0	1715.4	1613.7	1604.9	1587.2
12.5°	3629.8	3355.7	2829.6	2325.5	1954.2	1706.6	1547.4	1481.1	1401.5	1392.7	1375.0
15°	3687.3	3355.7	2705.8	2135.4	1746.4	1516.5	1379.4	1317.5	1260.0	1251.2	1242.4
17.5°	3744.8	3346.8	2582.0	1958.6	1573.9	1366.1	1246.8	1198.1	1153.9	1149.5	1140.7
20°	3797.8	3342.4	2458.2	1808.3	1441.3	1242.4	1149.5	1105.3	1069.9	1069.9	1065.5
22.5°	3850.9	3333.6	2338.8	1666.8	1326.4	1149.5	1069.9	1021.3	994.8	994.8	990.3
25°	3930.4	3333.6	2228.3	1547.4	1233.5	1078.8	999.2	963.8	941.7	937.3	937.3
27.5°	4023.3	3360.1	2131.0	1441.3	1153.9	1008.0	946.1	910.8	884.2	875.4	879.8
30°	4125.0	3382.2	2042.6	1348.5	1078.8	955.0	888.7	853.3	826.8	817.9	822.3
32.5°	4226.7	3408.7	1963.0	1264.5	1003.6	906.3	840.0	800.2	773.7	769.3	769.3
35°	4337.2	3435.3	1883.4	1193.7	941.7	857.7	795.8	751.6	733.9	725.1	729.5
37.5°	4447.7	3479.5	1808.3	1127.4	897.5	813.5	756.0	711.8	698.5	694.1	694.1
40°	4580.4	3545.8	1777.3	1083.2	857.7	773.7	725.1	680.9	667.6	667.6	667.6
42.5°	4690.9	3598.9	1750.8	1034.6	826.8	738.3	694.1	658.8	649.9	645.5	649.9
45°	4801.4	3647.5	1715.4	990.3	787.0	703.0	667.6	632.2	623.4	623.4	623.4
47.5°	4911.9	3674.0	1666.8	946.1	751.6	672.0	641.1	610.1	601.3	601.3	601.3
50°	5000.4	3696.1	1596.1	897.5	711.8	645.5	614.5	583.6	574.8	574.8	574.8
52.5°	5088.8	3700.5	1520.9	840.0	672.0	614.5	588.0	557.1	548.2	543.8	543.8
55°	5168.4	3696.1	1432.5	773.7	627.8	579.2	557.1	530.5	512.9	495.2	504.0
57.5°	5225.9	3691.7	1330.8	707.4	583.6	543.8	535.0	499.6	464.2	420.0	428.9
60°	5203.7	3643.1	1220.3	623.4	535.0	508.4	508.4	459.8	397.9	375.8	380.2
62.5°	5062.3	3506.0	1105.3	535.0	486.3	473.1	468.6	415.6	367.0	344.9	349.3
65°	4637.8	3161.2	937.3	455.4	437.7	433.3	433.3	384.6	340.4	313.9	318.3
67.5°	3992.3	2652.7	764.9	384.6	389.1	397.9	397.9	353.7	309.5	283.0	287.4
70°	3200.9	2073.5	610.1	331.6	336.0	349.3	358.1	318.3	278.5	252.0	252.0
72.5°	2409.6	1573.9	490.8	278.5	300.6	300.6	313.9	283.0	243.2	216.6	221.1
75°	1746.4	1127.4	389.1	234.3	260.9	256.4	256.4	238.7	207.8	190.1	190.1
77.5°	826.8	592.4	309.5	168.0	203.4	199.0	203.4	190.1	176.8	159.2	163.6
80°	406.8	291.8	199.0	119.4	141.5	145.9	159.2	150.3	145.9	132.6	132.6
82.5°	194.5	115.0	92.8	84.0	97.3	101.7	110.5	110.5	115.0	106.1	106.1
85°	53.1	30.9	39.8	53.1	61.9	66.3	75.2	79.6	79.6	75.2	79.6
87.5°	13.3	13.3	17.7	26.5	30.9	35.4	39.8	39.8	17.7	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)