

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: P841880

Luminaire Tested: **ARCH4-240-727-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841880
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: ARCH4-240-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA 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: 23836 lumens
Efficiency: N/A
Efficacy: 99.2 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): 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



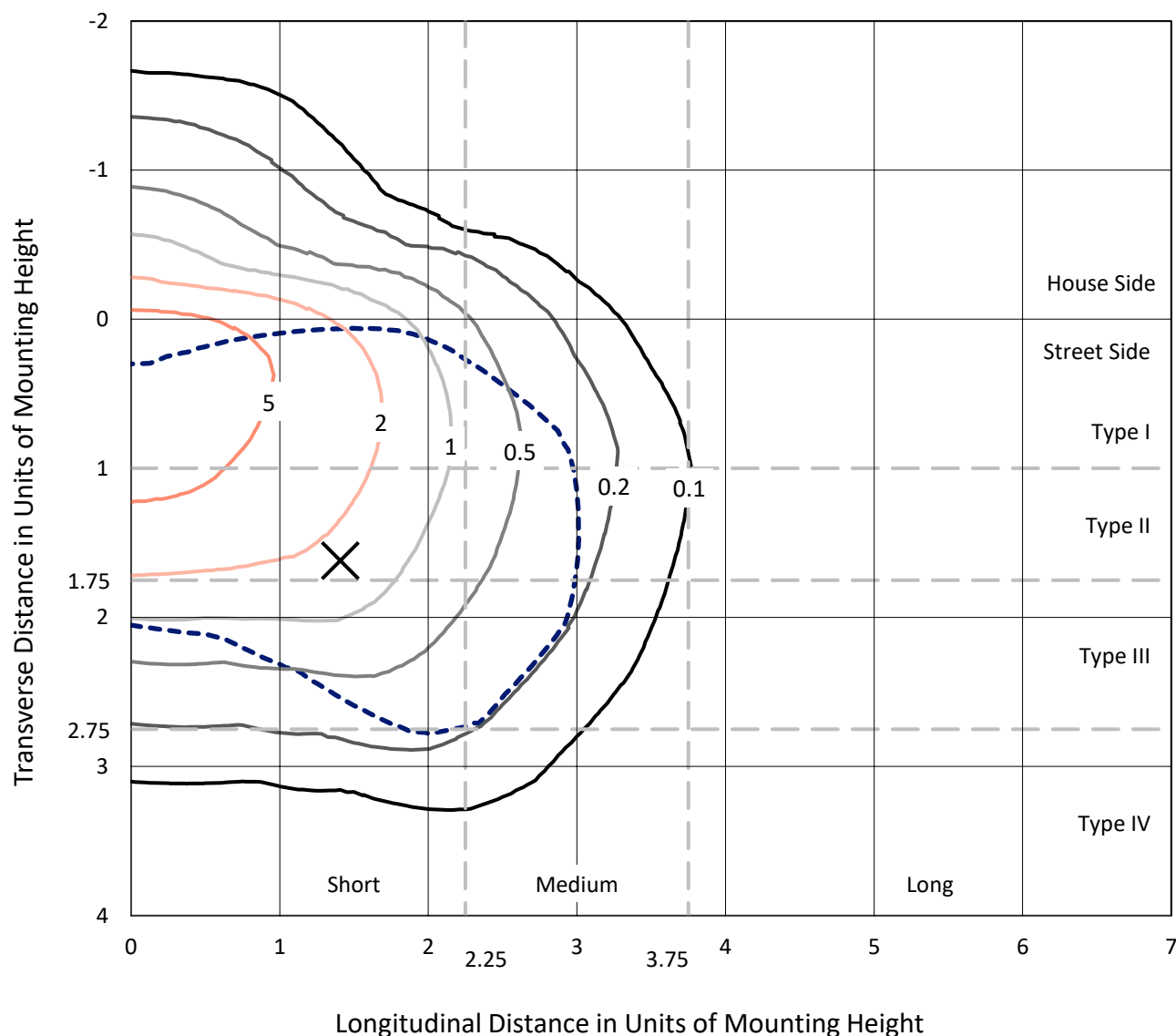
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

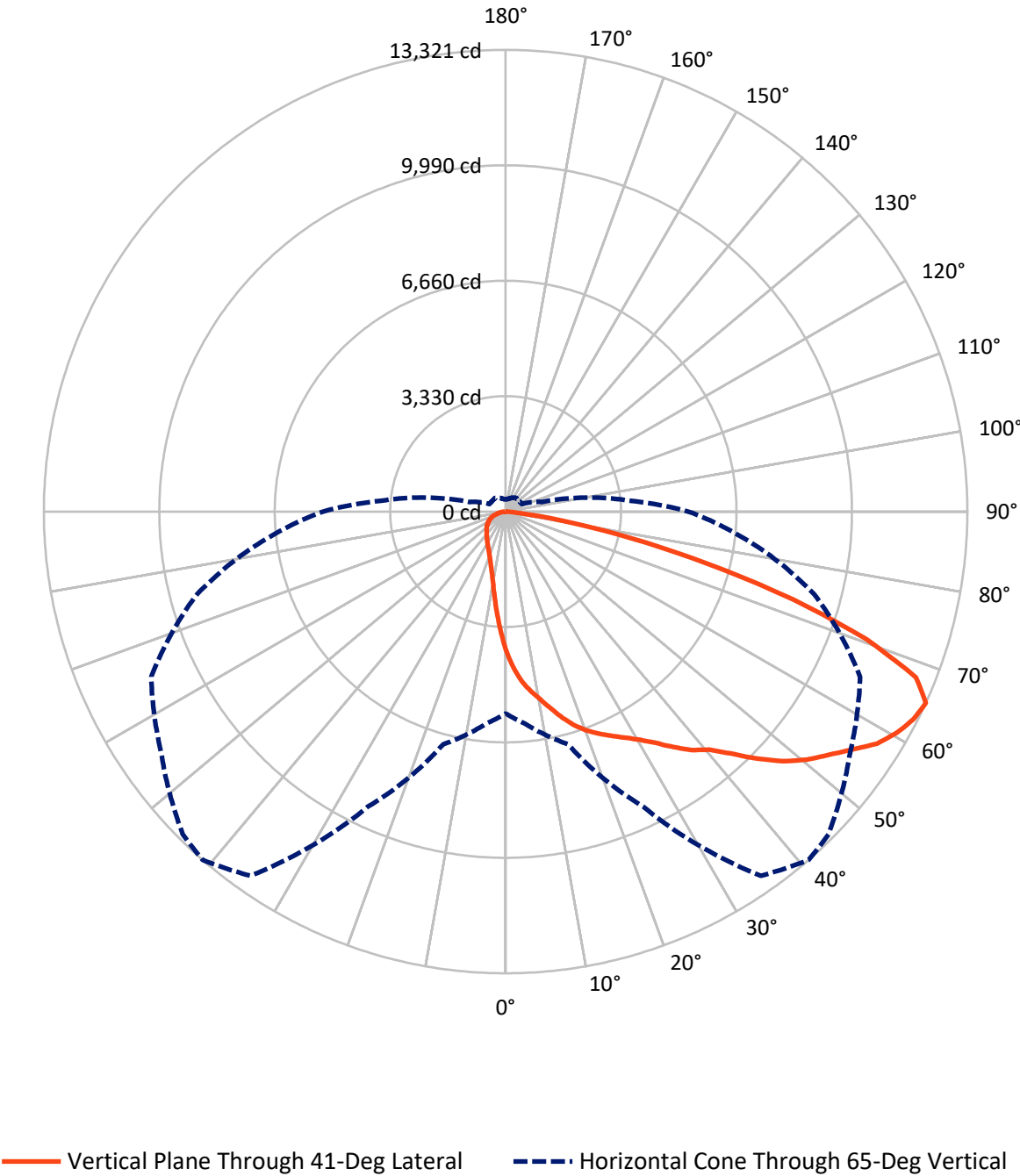


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc

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	3060.2	0.0	3060.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20775.8	0.0	20775.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	23836.0	0.0	23836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.6
10°-20°	1134.7	4.8
20°-30°	1952.2	8.2
30°-40°	2960.8	12.4
40°-50°	4337.6	18.2
50°-60°	5477.5	23.0
60°-70°	5136.1	21.5
70°-80°	2289.2	9.6
80°-90°	169.6	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°	23836.0	100.0
0°-180°	23836.0	100.0

Coefficient of Utilization



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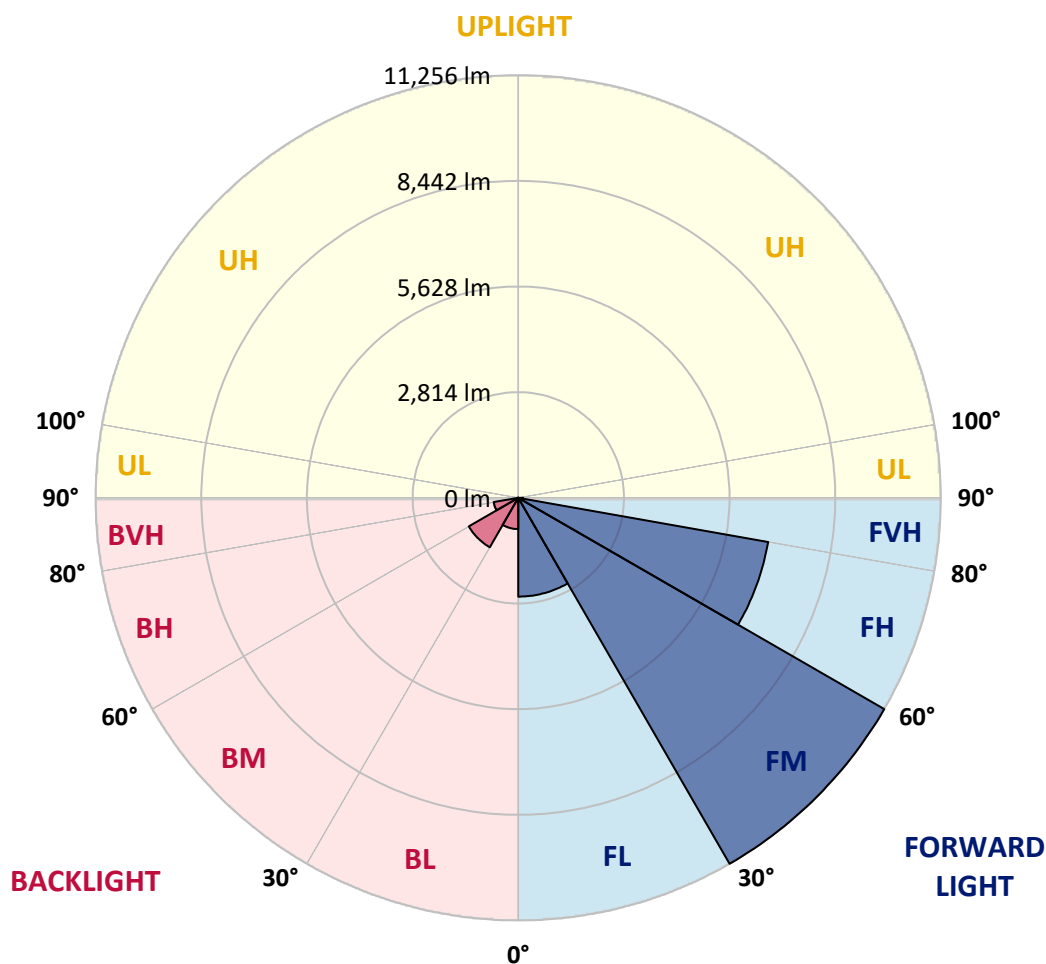
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2632.4	11.0			
FM	(30°-60°)	11256.3	47.2			
FH	(60°-80°)	6760.5	28.4			G3/7500
FVH	(80°-90°)	126.7	0.5			G2/225
BL	(0°-30°)	832.9	3.5	B2/1000		
BM	(30°-60°)	1519.5	6.4	B2/2500		
BH	(60°-80°)	664.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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°	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5
2.5°	4684.8	4669.8	4659.7	4604.4	4604.4	4529.0	4534.0	4463.7	4378.2	4242.5	4096.7
5°	5127.2	5107.1	5081.9	5026.6	5006.5	4931.1	4921.1	4820.6	4674.8	4438.5	4177.1
7.5°	5514.2	5494.1	5458.9	5378.5	5323.2	5232.7	5207.6	5076.9	4916.1	4624.5	4257.6
10°	5866.1	5851.0	5805.8	5705.2	5629.8	5519.3	5474.0	5298.1	5097.0	4775.3	4322.9
12.5°	6223.0	6202.9	6142.6	6057.1	5966.6	5835.9	5780.6	5554.4	5298.1	4941.2	4418.4
15°	6554.7	6524.6	6479.3	6388.9	6308.4	6182.8	6122.5	5856.0	5544.4	5127.2	4544.1
17.5°	6770.9	6745.8	6705.5	6655.3	6589.9	6494.4	6434.1	6172.7	5790.7	5308.1	4674.8
20°	6901.6	6891.5	6876.5	6846.3	6816.1	6750.8	6705.5	6459.2	6057.1	5484.1	4800.4
22.5°	7002.1	6992.1	6987.0	6987.0	6992.1	6966.9	6936.8	6725.7	6313.5	5670.1	4916.1
25°	7157.9	7152.9	7142.9	7132.8	7168.0	7173.0	7163.0	7017.2	6635.2	5916.4	5061.8
27.5°	7374.1	7359.0	7338.9	7328.8	7364.0	7389.2	7409.3	7308.7	6977.0	6167.7	5227.7
30°	7705.8	7660.6	7610.3	7575.2	7600.3	7640.5	7685.7	7625.4	7328.8	6479.3	5398.6
32.5°	8097.9	8042.6	7927.0	7861.7	7927.0	7957.2	7992.4	7962.2	7695.8	6816.1	5569.5
35°	8575.5	8510.1	8389.5	8294.0	8409.6	8344.2	8329.2	8299.0	8042.6	7147.9	5760.5
37.5°	9369.7	9274.2	9083.1	8872.0	8872.0	8731.3	8676.0	8585.5	8354.3	7444.5	5946.5
40°	10289.5	10163.9	9917.6	9605.9	9319.4	9027.9	8992.7	8927.3	8721.2	7786.3	6157.6
42.5°	11299.9	11058.6	10716.8	10339.8	9877.4	9545.6	9465.2	9279.2	9078.1	8133.1	6368.8
45°	12420.8	11918.2	11420.5	11229.5	10465.5	10163.9	10013.1	9676.3	9450.1	8495.0	6589.9
47.5°	12601.8	12209.7	11878.0	11847.8	11013.4	10762.0	10591.1	10108.6	9852.2	8882.1	6821.2
50°	12501.3	12265.0	12300.2	12179.6	11415.5	11249.6	11118.9	10571.0	10249.3	9254.1	7032.3
52.5°	12079.0	12209.7	12410.8	12189.6	11797.5	11661.8	11596.5	11068.7	10621.3	9595.9	7223.3
55°	11576.4	11666.8	12099.1	12370.6	12239.9	12119.2	12058.9	11646.7	10988.2	9882.4	7399.2
57.5°	10842.5	10802.3	11279.8	12340.4	12702.3	12632.0	12566.6	12214.7	11330.1	10088.5	7509.8
60°	9741.6	9656.2	10259.4	11737.2	12853.1	12963.7	12933.6	12591.7	11591.4	10083.5	7464.6
62.5°	7836.5	8047.7	8882.1	10752.0	12918.5	13200.0	13144.7	12621.9	11676.9	9791.9	7178.1
65°	5825.9	6127.5	6946.8	9394.8	12828.0	13320.6	13169.8	12129.3	11279.8	9213.8	6549.7
67.5°	4197.2	4463.7	5061.8	7731.0	11958.4	12767.7	12591.7	11325.0	10364.9	8394.5	5680.1
70°	2870.2	3061.2	3468.4	5629.8	10209.1	11038.5	10927.9	10123.7	8922.3	7419.3	4614.5
72.5°	2025.7	2106.2	2367.6	3714.7	7756.1	8660.9	8530.2	8329.2	7168.0	6167.7	3589.0
75°	1518.0	1568.3	1709.1	2402.7	5232.7	6001.8	5881.2	5996.8	5353.4	4669.8	2613.9
77.5°	573.0	623.3	970.1	1533.1	3096.4	3684.5	3563.9	3634.3	2975.8	2357.5	1301.9
80°	155.8	165.9	321.7	728.9	1407.5	1834.7	1668.8	1432.6	1105.9	1085.8	688.7
82.5°	65.3	75.4	145.8	392.1	502.7	502.7	422.2	522.8	422.2	507.7	331.8
85°	25.1	30.2	35.2	100.5	65.3	70.4	75.4	100.5	85.5	105.6	75.4
87.5°	0.0	0.0	0.0	5.0	5.0	10.1	5.0	10.1	15.1	15.1	15.1
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°	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5	4061.5
2.5°	4036.4	3981.1	3900.7	3770.0	3634.3	3558.9	3463.4	3448.3	3347.7	3337.7	3297.5
5°	4061.5	3945.9	3739.8	3488.5	3242.2	3051.2	2910.4	2835.0	2689.3	2689.3	2649.0
7.5°	4081.6	3900.7	3568.9	3196.9	2860.2	2603.8	2412.8	2332.4	2201.7	2191.6	2161.5
10°	4086.7	3845.4	3382.9	2900.4	2488.2	2226.8	2040.8	1950.3	1834.7	1824.7	1804.6
12.5°	4126.9	3815.2	3217.1	2644.0	2221.8	1940.3	1759.3	1683.9	1593.4	1583.4	1563.3
15°	4192.2	3815.2	3076.3	2427.9	1985.5	1724.1	1568.3	1497.9	1432.6	1422.5	1412.5
17.5°	4257.6	3805.2	2935.6	2226.8	1789.5	1553.2	1417.5	1362.2	1312.0	1306.9	1296.9
20°	4317.9	3800.1	2794.8	2055.9	1638.7	1412.5	1306.9	1256.7	1216.4	1216.4	1211.4
22.5°	4378.2	3790.1	2659.1	1895.0	1508.0	1306.9	1216.4	1161.2	1131.0	1131.0	1126.0
25°	4468.7	3790.1	2533.4	1759.3	1402.4	1226.5	1136.0	1095.8	1070.7	1065.6	1065.6
27.5°	4574.2	3820.3	2422.8	1638.7	1312.0	1146.1	1075.7	1035.5	1005.3	995.3	1000.3
30°	4689.9	3845.4	2322.3	1533.1	1226.5	1085.8	1010.4	970.1	940.0	929.9	935.0
32.5°	4805.5	3875.5	2231.8	1437.6	1141.0	1030.5	955.1	909.8	879.7	874.6	874.6
35°	4931.1	3905.7	2141.4	1357.2	1070.7	975.2	904.8	854.5	834.4	824.4	829.4
37.5°	5056.8	3956.0	2055.9	1281.8	1020.4	924.9	859.6	809.3	794.2	789.2	789.2
40°	5207.6	4031.4	2020.7	1231.5	975.2	879.7	824.4	774.1	759.0	759.0	759.0
42.5°	5333.3	4091.7	1990.6	1176.2	940.0	839.4	789.2	749.0	738.9	733.9	738.9
45°	5458.9	4147.0	1950.3	1126.0	894.7	799.2	759.0	718.8	708.8	708.8	708.8
47.5°	5584.6	4177.1	1895.0	1075.7	854.5	764.1	728.9	693.7	683.6	683.6	683.6
50°	5685.1	4202.3	1814.6	1020.4	809.3	733.9	698.7	663.5	653.5	653.5	653.5
52.5°	5785.7	4207.3	1729.2	955.1	764.1	698.7	668.5	633.4	623.3	618.3	618.3
55°	5876.1	4202.3	1628.6	879.7	713.8	658.5	633.4	603.2	583.1	563.0	573.0
57.5°	5941.5	4197.2	1513.0	804.3	663.5	618.3	608.2	568.0	527.8	477.5	487.6
60°	5916.4	4142.0	1387.4	708.8	608.2	578.1	578.1	522.8	452.4	427.3	432.3
62.5°	5755.5	3986.1	1256.7	608.2	552.9	537.9	532.8	472.5	417.2	392.1	397.1
65°	5273.0	3594.1	1065.6	517.7	497.6	492.6	492.6	437.3	387.1	356.9	361.9
67.5°	4539.1	3016.0	869.6	437.3	442.3	452.4	452.4	402.1	351.9	321.7	326.7
70°	3639.3	2357.5	693.7	377.0	382.0	397.1	407.2	361.9	316.7	286.5	286.5
72.5°	2739.5	1789.5	558.0	316.7	341.8	341.8	356.9	321.7	276.5	246.3	251.3
75°	1985.5	1281.8	442.3	266.4	296.6	291.5	291.5	271.4	236.3	216.1	216.1
77.5°	940.0	673.6	351.9	191.0	231.2	226.2	231.2	216.1	201.1	181.0	186.0
80°	462.5	331.8	226.2	135.7	160.9	165.9	181.0	170.9	165.9	150.8	150.8
82.5°	221.2	130.7	105.6	95.5	110.6	115.6	125.7	125.7	130.7	120.6	120.6
85°	60.3	35.2	45.2	60.3	70.4	75.4	85.5	90.5	90.5	85.5	90.5
87.5°	15.1	15.1	20.1	30.2	35.2	40.2	45.2	45.2	20.1	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)