

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: P841884

Luminaire Tested: **ARCH4-240-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35845 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

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

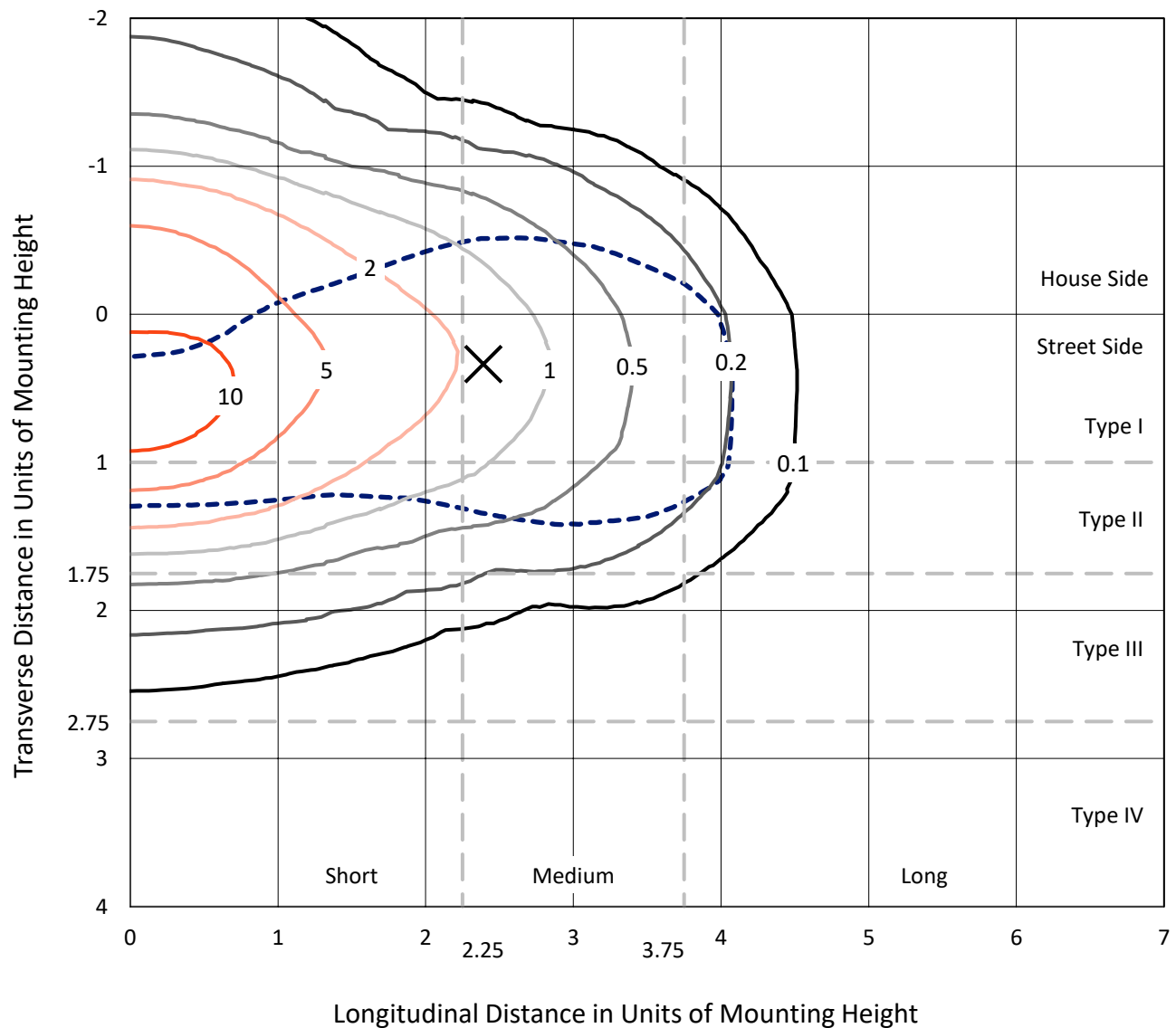


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Iso-Footcandle Lines of Horizontal Illumination

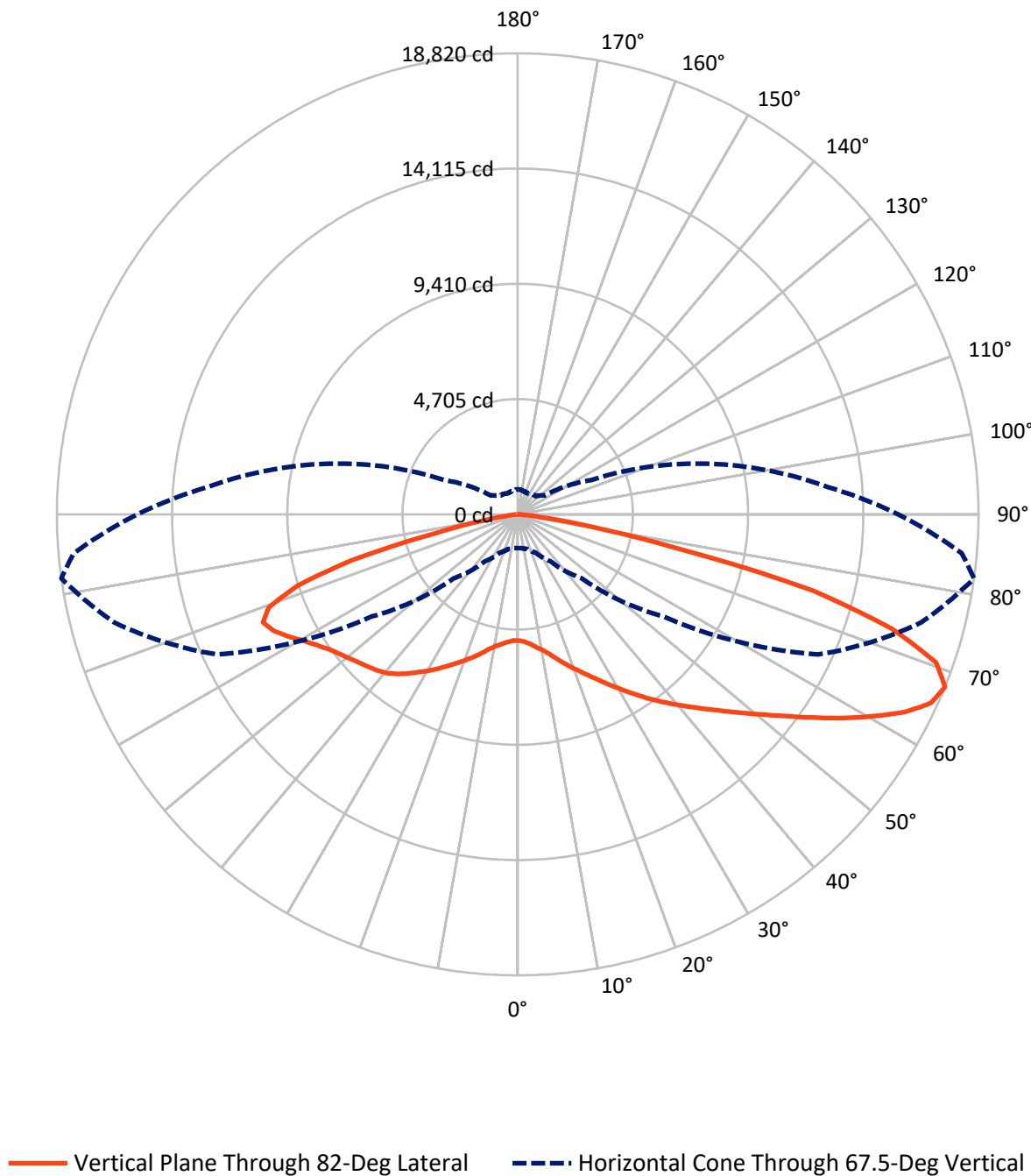
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10916.3	0.0	10916.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	24928.7	0.0	24928.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	35845.0	0.0	35845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.5	1.5
10°-20°	1918.1	5.4
20°-30°	3855.0	10.8
30°-40°	6055.6	16.9
40°-50°	7376.9	20.6
50°-60°	6970.3	19.4
60°-70°	5755.8	16.1
70°-80°	3134.3	8.7
80°-90°	246.4	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°	35845.0	100.0
0°-180°	35845.0	100.0

Coefficient of Utilization



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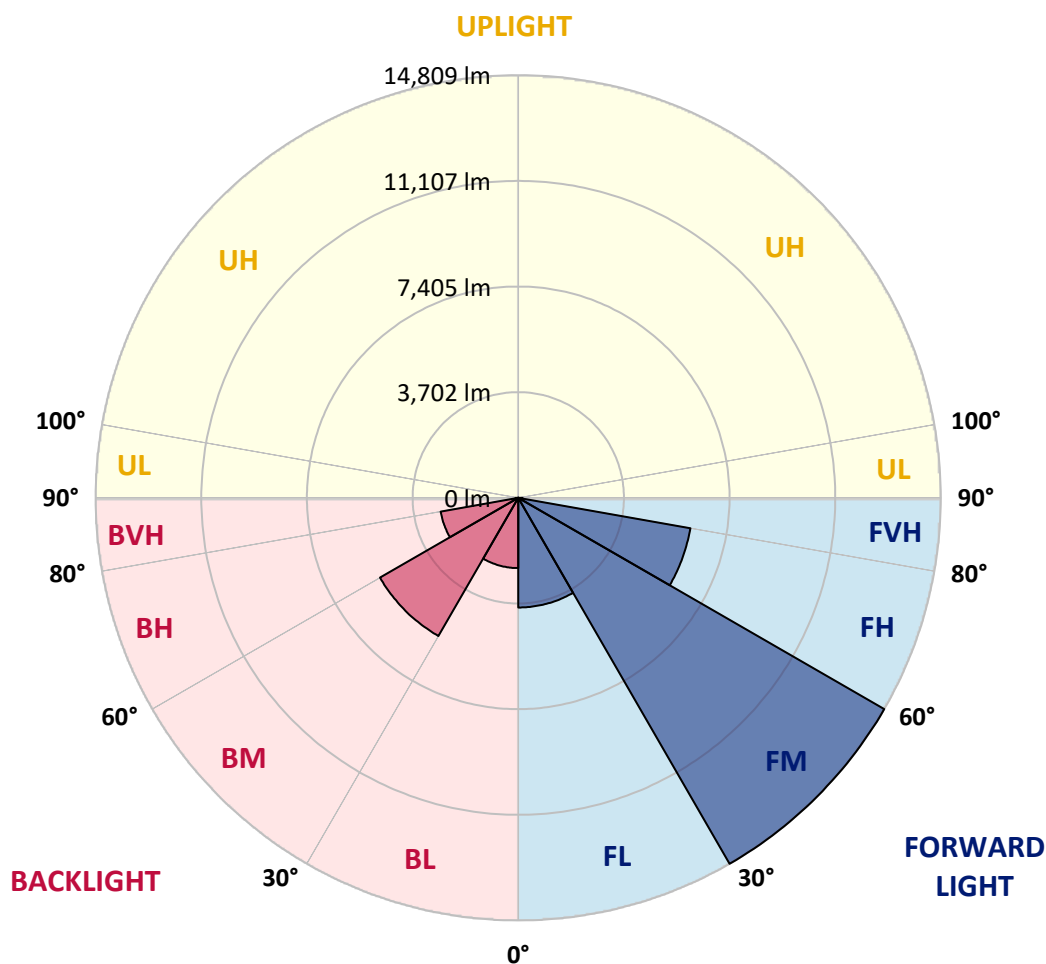
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3843.9	10.7			
FM	(30°-60°)	14809.1	41.3			
FH	(60°-80°)	6127.2	17.1			G3/7500
FVH	(80°-90°)	148.5	0.4			G2/225
BL	(0°-30°)	2461.7	6.9	B3/2500		
BM	(30°-60°)	5593.7	15.6	B4/8500		
BH	(60°-80°)	2763.0	7.7	B4/5000		G4/5000
BVH	(80°-90°)	97.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7
2.5°	5386.9	5386.9	5428.6	5428.6	5392.1	5334.9	5319.3	5256.8	5199.5	5199.5	5204.7
5°	5902.2	5897.0	5928.2	5886.6	5798.1	5683.6	5605.5	5470.2	5355.7	5319.3	5314.0
7.5°	6532.0	6526.8	6542.4	6474.7	6308.2	6120.8	5964.6	5746.0	5558.7	5480.6	5459.8
10°	7234.6	7229.4	7213.8	7099.3	6875.5	6584.0	6349.8	6047.9	5766.9	5641.9	5615.9
12.5°	8041.3	8030.9	7994.5	7827.9	7520.9	7146.1	6807.8	6417.5	6042.7	5871.0	5813.7
15°	8941.8	8926.1	8858.5	8655.5	8244.3	7770.7	7333.5	6833.8	6375.8	6152.0	6073.9
17.5°	9889.0	9889.0	9784.9	9483.1	9025.0	8436.9	7895.6	7260.6	6724.5	6448.7	6355.0
20°	10851.9	10846.7	10716.6	10352.2	9810.9	9134.3	8447.3	7749.9	7083.7	6750.6	6636.1
22.5°	11866.8	11856.4	11695.1	11278.7	10633.3	9868.2	9066.7	8233.9	7479.2	7078.5	6932.7
25°	13032.7	13017.1	12819.3	12309.2	11544.1	10680.1	9764.1	8801.2	7932.0	7442.8	7271.0
27.5°	14271.4	14250.6	14016.4	13423.0	12585.1	11544.1	10534.4	9457.0	8431.7	7848.8	7656.2
30°	15374.8	15359.2	15104.2	14495.2	13532.3	12402.9	11268.3	10112.8	8957.4	8280.8	8041.3
32.5°	16207.6	16207.6	15978.6	15380.0	14380.7	13225.3	12007.4	10732.2	9503.9	8744.0	8462.9
35°	16712.4	16728.1	16530.3	16051.4	15109.4	14000.8	12772.5	11460.9	10086.8	9238.4	8936.6
37.5°	16785.3	16837.4	16722.9	16400.2	15614.2	14646.2	13521.9	12163.5	10690.6	9738.1	9399.8
40°	16447.0	16483.4	16488.6	16363.7	15822.4	15109.4	14182.9	12907.8	11330.7	10263.8	9873.4
42.5°	15770.4	15796.4	15843.3	15879.7	15671.5	15312.4	14687.8	13600.0	12012.6	10799.9	10341.8
45°	14896.0	14890.8	14968.9	15125.0	15114.6	15197.9	14968.9	14229.8	12720.4	11408.8	10862.3
47.5°	13589.6	13563.6	13839.4	14193.3	14370.3	14760.7	14974.1	14724.2	13490.7	12080.2	11455.6
50°	11544.1	11518.1	12121.9	12954.6	13475.1	14068.4	14687.8	15020.9	14297.4	12834.9	12101.0
52.5°	9056.3	9030.2	9795.3	11252.7	12387.3	13251.3	14110.1	15088.6	15062.5	13678.1	12829.7
55°	6734.9	6714.1	7458.4	9035.4	10872.7	12304.0	13402.2	14911.6	15780.8	14646.2	13714.5
57.5°	4746.7	4736.3	5381.7	6688.1	8926.1	11148.6	12720.4	14568.1	16441.8	15697.5	14713.8
60°	3331.0	3315.4	3783.9	4793.6	6750.6	9405.0	12043.8	14110.1	16936.2	16733.3	15775.6
62.5°	2243.2	2232.8	2565.9	3409.1	4793.6	7239.8	11018.5	13803.0	17217.3	17774.2	16847.8
65°	1702.0	1696.7	1847.7	2310.9	3393.5	5199.5	9389.4	13766.6	17253.7	18554.9	17758.6
67.5°	1374.1	1379.3	1462.5	1728.0	2347.3	3695.4	7281.4	13537.5	17061.2	18820.4	18201.0
70°	1124.2	1124.2	1160.7	1337.6	1733.2	2493.1	5085.0	12496.6	16525.1	18128.1	17675.3
72.5°	858.8	864.0	978.5	1082.6	1306.4	1748.8	3258.2	10341.8	15260.3	15983.8	15640.3
75°	681.8	676.6	744.3	890.0	1014.9	1249.1	1998.6	7416.8	12985.8	12491.4	12272.8
77.5°	489.2	484.0	536.1	661.0	770.3	884.8	1191.9	3742.2	7062.8	6490.3	6329.0
80°	333.1	322.7	369.5	458.0	510.1	520.5	582.9	1436.5	3081.2	2904.2	2867.8
82.5°	171.8	171.8	197.8	260.2	265.4	270.6	260.2	463.2	1020.1	952.5	910.8
85°	67.7	67.7	72.9	88.5	88.5	93.7	93.7	119.7	109.3	104.1	98.9
87.5°	5.2	5.2	10.4	10.4	15.6	15.6	15.6	20.8	26.0	26.0	26.0
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°	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7	5152.7
2.5°	5194.3	5173.5	5105.9	5090.2	5079.8	5064.2	5069.4	5033.0	5017.4	5022.6	5001.8
5°	5288.0	5251.6	5168.3	5131.9	5121.5	5105.9	5121.5	5095.4	5069.4	5079.8	5069.4
7.5°	5418.1	5366.1	5262.0	5225.6	5220.4	5204.7	5225.6	5204.7	5183.9	5194.3	5173.5
10°	5553.5	5485.8	5371.3	5334.9	5334.9	5329.7	5350.5	5319.3	5298.4	5303.6	5293.2
12.5°	5751.2	5662.8	5537.9	5506.6	5491.0	5506.6	5511.8	5470.2	5433.8	5439.0	5423.3
15°	5990.7	5891.8	5756.5	5709.6	5699.2	5694.0	5673.2	5621.1	5574.3	5569.1	5553.5
17.5°	6250.9	6126.0	5964.6	5917.8	5871.0	5855.3	5803.3	5735.6	5662.8	5662.8	5641.9
20°	6500.7	6360.2	6167.6	6100.0	6032.3	5969.8	5881.4	5772.1	5678.4	5662.8	5641.9
22.5°	6771.4	6604.8	6381.0	6282.1	6162.4	6037.5	5886.6	5740.8	5621.1	5595.1	5579.5
25°	7073.3	6865.1	6599.6	6453.9	6261.3	6068.7	5844.9	5657.6	5517.0	5475.4	5465.0
27.5°	7406.4	7156.5	6833.8	6620.4	6339.4	6037.5	5751.2	5527.4	5355.7	5303.6	5288.0
30°	7744.7	7448.0	7047.2	6734.9	6339.4	5938.6	5579.5	5319.3	5121.5	5048.6	5038.2
32.5°	8083.0	7749.9	7239.8	6797.4	6276.9	5772.1	5355.7	5048.6	4824.8	4736.3	4757.1
35°	8488.9	8083.0	7416.8	6823.4	6172.8	5569.1	5100.7	4741.5	4512.5	4434.4	4450.1
37.5°	8910.5	8416.1	7557.3	6802.6	6027.1	5340.1	4814.4	4465.7	4179.4	4044.1	4059.7
40°	9274.9	8718.0	7656.2	6729.7	5839.7	5079.8	4533.3	4075.3	3679.8	3549.6	3534.0
42.5°	9618.4	8941.8	7708.2	6620.4	5626.3	4778.0	4132.6	3544.4	3148.9	2987.5	2992.7
45°	9977.5	9160.4	7687.4	6474.7	5360.9	4424.0	3617.3	3024.0	2675.2	2529.5	2534.7
47.5°	10388.7	9394.6	7666.6	6318.6	5038.2	3966.0	3122.8	2565.9	2264.1	2160.0	2149.6
50°	10825.9	9654.8	7640.6	6126.0	4679.1	3456.0	2633.6	2139.2	1884.1	1816.5	1800.8
52.5°	11320.3	9935.9	7625.0	5897.0	4247.1	2914.7	2196.4	1764.4	1592.7	1545.8	1540.6
55°	11913.7	10263.8	7645.8	5621.1	3726.6	2404.6	1826.9	1519.8	1405.3	1379.3	1374.1
57.5°	12637.1	10685.3	7708.2	5298.4	3180.1	1962.2	1556.2	1368.8	1296.0	1275.2	1275.2
60°	13423.0	11164.2	7822.7	4934.1	2633.6	1618.7	1379.3	1249.1	1217.9	1243.9	1243.9
62.5°	14271.4	11726.3	8025.7	4491.7	2123.5	1368.8	1238.7	1150.2	1129.4	1181.5	1186.7
65°	15057.3	12272.8	8155.8	3960.8	1686.3	1186.7	1129.4	1051.4	1061.8	1113.8	1108.6
67.5°	15541.4	12725.6	7973.7	3294.6	1337.6	1051.4	1014.9	947.3	973.3	1014.9	1020.1
70°	15244.7	12470.6	7073.3	2487.9	1046.2	916.0	890.0	848.4	869.2	921.2	942.1
72.5°	13792.6	11169.4	5501.4	1681.1	843.2	770.3	780.7	759.9	785.9	832.8	879.6
75°	11195.4	8442.1	3690.2	1077.4	666.2	655.8	671.4	655.8	666.2	713.1	739.1
77.5°	5844.9	4117.0	1837.3	671.4	494.5	510.1	536.1	541.3	572.5	582.9	593.3
80°	2727.3	1852.9	765.1	374.7	327.9	359.1	411.2	416.4	426.8	442.4	447.6
82.5°	890.0	556.9	353.9	203.0	187.4	203.0	265.4	317.5	322.7	353.9	353.9
85°	93.7	57.3	78.1	83.3	72.9	88.5	119.7	114.5	52.0	31.2	31.2
87.5°	26.0	20.8	26.0	26.0	20.8	20.8	15.6	5.2	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)