

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: P841902

Luminaire Tested: **ARCH4-240-740-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841902
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: ARCH4-240-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37637 lumens
Efficiency: N/A
Efficacy: 156.7 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

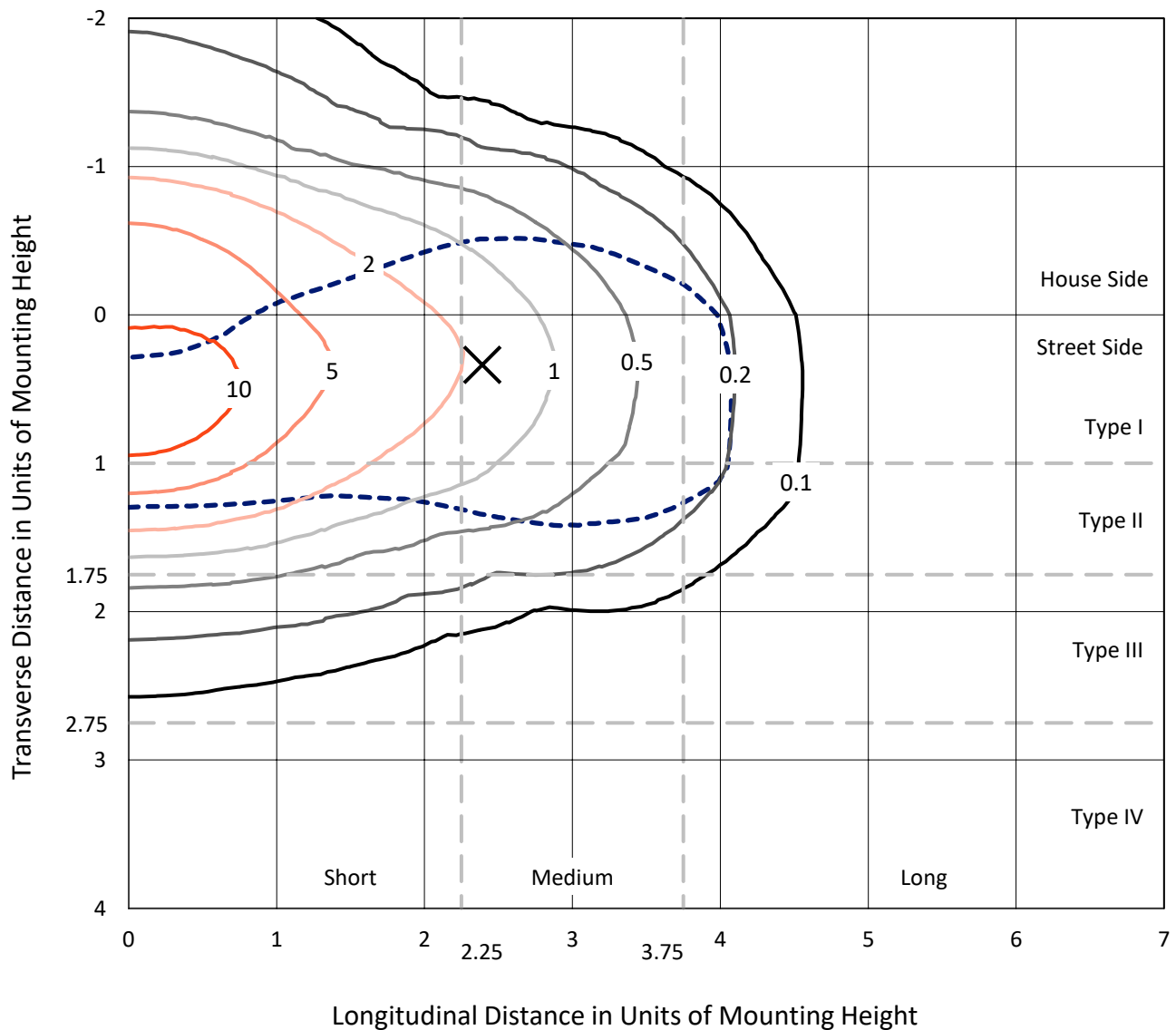
Input Watts (W): 240.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

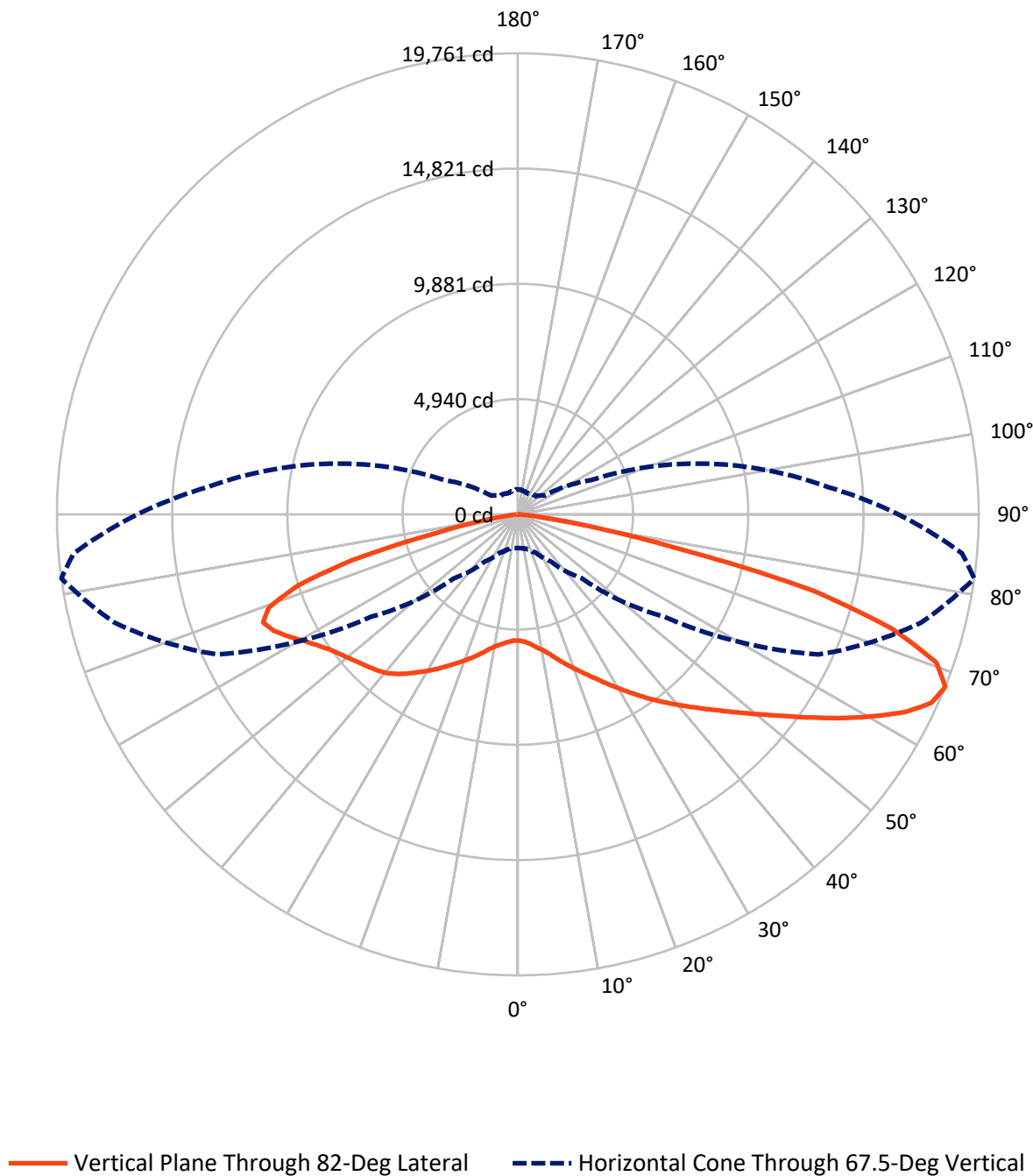
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	11462.0	0.0	11462.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	26175.0	0.0	26175.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	37637.0	0.0	37637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	1.5
10°-20°	2014.0	5.4
20°-30°	4047.7	10.8
30°-40°	6358.3	16.9
40°-50°	7745.7	20.6
50°-60°	7318.8	19.4
60°-70°	6043.6	16.1
70°-80°	3291.0	8.7
80°-90°	258.7	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°	37637.0	100.0
0°-180°	37637.0	100.0

Coefficient of Utilization



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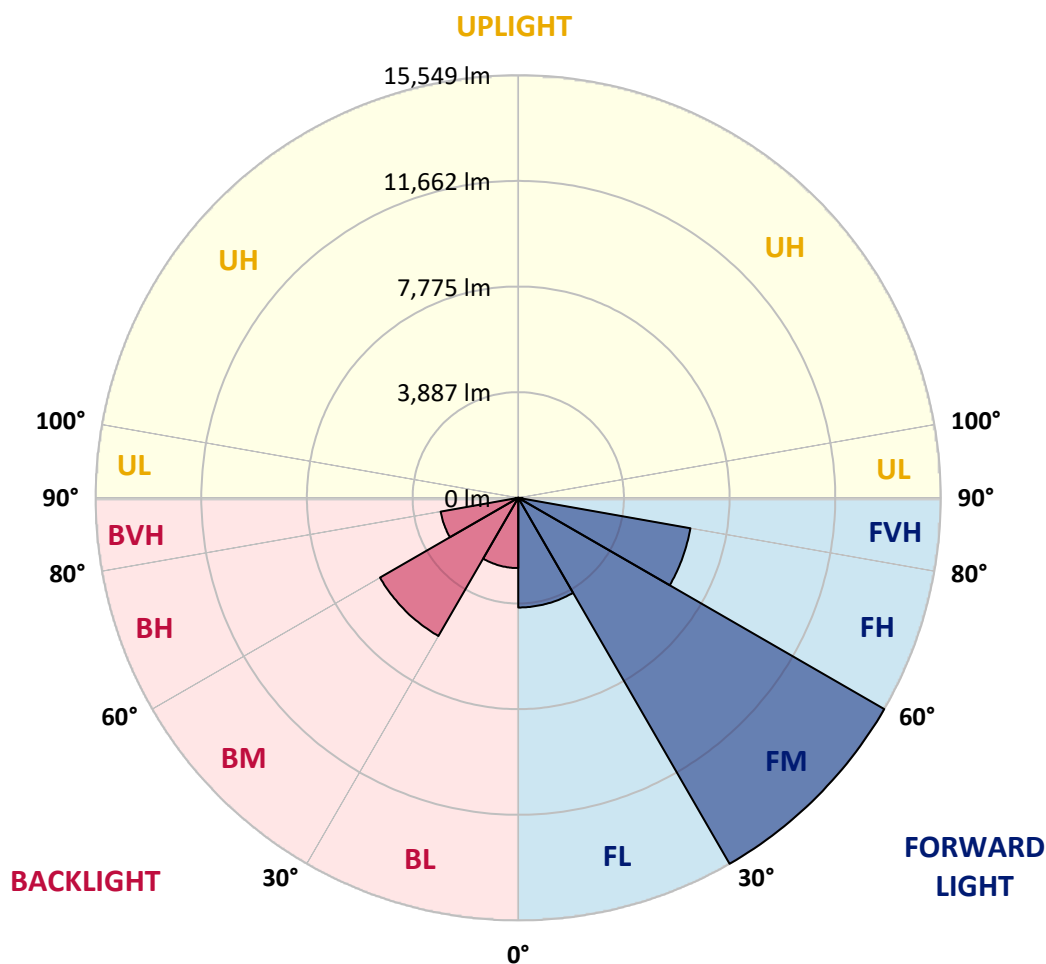
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4036.1	10.7			
FM	(30°-60°)	15549.5	41.3			
FH	(60°-80°)	6433.5	17.1			G3/7500
FVH	(80°-90°)	156.0	0.4			G2/225
BL	(0°-30°)	2584.8	6.9	B4/5000		
BM	(30°-60°)	5873.4	15.6	B4/8500		
BH	(60°-80°)	2901.1	7.7	B4/5000		G4/5000
BVH	(80°-90°)	102.8	0.3			G2/225
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°	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3
2.5°	5656.2	5656.2	5699.9	5699.9	5661.7	5601.6	5585.2	5519.6	5459.5	5459.5	5464.9
5°	6197.3	6191.8	6224.6	6180.9	6088.0	5967.7	5885.7	5743.7	5623.4	5585.2	5579.7
7.5°	6858.5	6853.0	6869.4	6798.4	6623.5	6426.8	6262.8	6033.3	5836.6	5754.6	5732.7
10°	7596.3	7590.8	7574.4	7454.2	7219.2	6913.2	6667.2	6350.3	6055.2	5924.0	5896.7
12.5°	8443.3	8432.4	8394.2	8219.3	7896.9	7503.4	7148.2	6738.3	6344.8	6164.5	6104.3
15°	9388.8	9372.4	9301.3	9088.2	8656.5	8159.2	7700.1	7175.5	6694.6	6459.6	6377.6
17.5°	10383.4	10383.4	10274.1	9957.1	9476.2	8858.7	8290.3	7623.6	7060.7	6771.1	6672.7
20°	11394.4	11389.0	11252.3	10869.8	10301.4	9591.0	8869.6	8137.3	7437.8	7088.0	6967.8
22.5°	12460.1	12449.2	12279.7	11842.5	11164.9	10361.5	9519.9	8645.5	7853.1	7432.3	7279.3
25°	13684.2	13667.8	13460.2	12924.6	12121.3	11214.1	10252.2	9241.2	8328.6	7814.9	7634.5
27.5°	14984.9	14963.0	14717.1	14094.1	13214.2	12121.3	11061.1	9929.8	8853.2	8241.1	8038.9
30°	16143.5	16127.1	15859.3	15219.9	14208.9	13023.0	11831.6	10618.4	9405.2	8694.7	8443.3
32.5°	17017.9	17017.9	16777.4	16148.9	15099.7	13886.4	12607.6	11268.7	9979.0	9181.1	8886.0
35°	17548.0	17564.3	17356.7	16853.9	15864.7	14700.7	13411.0	12033.8	10591.1	9700.3	9383.3
37.5°	17624.5	17679.1	17558.9	17220.1	16394.8	15378.4	14197.9	12771.6	11225.0	10224.9	9869.7
40°	17269.2	17307.5	17313.0	17181.8	16613.4	15864.7	14892.0	13553.1	11897.2	10776.9	10367.0
42.5°	16558.8	16586.1	16635.3	16673.6	16455.0	16077.9	15422.1	14279.9	12613.1	11339.8	10858.9
45°	15640.7	15635.2	15717.2	15881.1	15870.2	15957.7	15717.2	14941.2	13356.3	11979.2	11405.3
47.5°	14269.0	14241.7	14531.3	14902.9	15088.7	15498.6	15722.7	15460.3	14165.1	12684.1	12028.4
50°	12121.3	12093.9	12727.9	13602.3	14148.8	14771.8	15422.1	15771.8	15012.2	13476.6	12706.0
52.5°	9509.0	9481.7	10285.0	11815.2	13006.6	13913.8	14815.5	15842.9	15815.6	14361.9	13471.1
55°	7071.6	7049.8	7831.3	9487.2	11416.3	12919.1	14072.2	15657.1	16569.7	15378.4	14400.1
57.5°	4984.0	4973.1	5650.8	7022.5	9372.4	11705.9	13356.3	15296.4	17263.8	16482.3	15449.4
60°	3497.6	3481.2	3973.0	5033.2	7088.0	9875.2	12645.9	14815.5	17782.9	17569.8	16564.3
62.5°	2355.4	2344.5	2694.2	3579.5	5033.2	7601.7	11569.3	14493.0	18078.1	18662.8	17690.0
65°	1787.0	1781.6	1940.1	2426.4	3563.1	5459.5	9858.8	14454.8	18116.3	19482.5	18646.4
67.5°	1442.7	1448.2	1535.7	1814.4	2464.7	3880.1	7645.5	14214.3	17914.1	19761.3	19110.9
70°	1180.4	1180.4	1218.7	1404.5	1819.8	2617.7	5339.3	13121.3	17351.2	19034.4	18559.0
72.5°	901.7	907.2	1027.4	1136.7	1371.7	1836.2	3421.1	10858.9	16023.2	16782.9	16422.2
75°	715.9	710.4	781.5	934.5	1065.7	1311.6	2098.5	7787.6	13635.0	13115.9	12886.3
77.5°	513.7	508.2	562.9	694.0	808.8	929.0	1251.5	3929.3	7415.9	6814.8	6645.4
80°	349.8	338.8	388.0	480.9	535.6	546.5	612.1	1508.3	3235.2	3049.4	3011.2
82.5°	180.3	180.3	207.7	273.2	278.7	284.2	273.2	486.4	1071.1	1000.1	956.4
85°	71.0	71.0	76.5	92.9	92.9	98.4	98.4	125.7	114.8	109.3	103.8
87.5°	5.5	5.5	10.9	10.9	16.4	16.4	16.4	21.9	27.3	27.3	27.3
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°	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3	5410.3
2.5°	5454.0	5432.2	5361.1	5344.7	5333.8	5317.4	5322.9	5284.6	5268.2	5273.7	5251.8
5°	5552.4	5514.1	5426.7	5388.4	5377.5	5361.1	5377.5	5350.2	5322.9	5333.8	5322.9
7.5°	5689.0	5634.4	5525.1	5486.8	5481.3	5464.9	5486.8	5464.9	5443.1	5454.0	5432.2
10°	5831.1	5760.1	5639.8	5601.6	5601.6	5596.1	5618.0	5585.2	5563.3	5568.8	5557.9
12.5°	6038.8	5945.9	5814.7	5781.9	5765.5	5781.9	5787.4	5743.7	5705.4	5710.9	5694.5
15°	6290.2	6186.3	6044.2	5995.0	5984.1	5978.7	5956.8	5902.1	5853.0	5847.5	5831.1
17.5°	6563.4	6432.2	6262.8	6213.6	6164.5	6148.1	6093.4	6022.4	5945.9	5945.9	5924.0
20°	6825.7	6678.2	6476.0	6404.9	6333.9	6268.3	6175.4	6060.6	5962.3	5945.9	5924.0
22.5°	7109.9	6935.0	6700.0	6596.2	6470.5	6339.3	6180.9	6027.8	5902.1	5874.8	5858.4
25°	7426.9	7208.3	6929.6	6776.5	6574.3	6372.1	6137.1	5940.4	5792.8	5749.1	5738.2
27.5°	7776.6	7514.3	7175.5	6951.4	6656.3	6339.3	6038.8	5803.8	5623.4	5568.8	5552.4
30°	8131.8	7820.3	7399.5	7071.6	6656.3	6235.5	5858.4	5585.2	5377.5	5301.0	5290.1
32.5°	8487.1	8137.3	7601.7	7137.2	6590.7	6060.6	5623.4	5301.0	5066.0	4973.1	4995.0
35°	8913.3	8487.1	7787.6	7164.5	6481.4	5847.5	5355.6	4978.6	4738.1	4656.1	4672.5
37.5°	9356.0	8836.8	7935.1	7142.7	6328.4	5607.0	5055.1	4688.9	4388.4	4246.3	4262.7
40°	9738.5	9153.8	8038.9	7066.2	6131.7	5333.8	4760.0	4279.1	3863.7	3727.1	3710.7
42.5°	10099.2	9388.8	8093.6	6951.4	5907.6	5016.8	4339.2	3721.6	3306.3	3136.9	3142.3
45°	10476.3	9618.3	8071.7	6798.4	5628.9	4645.2	3798.1	3175.1	2809.0	2656.0	2661.4
47.5°	10908.0	9864.2	8049.9	6634.4	5290.1	4164.3	3279.0	2694.2	2377.3	2268.0	2257.0
50°	11367.1	10137.5	8022.5	6432.2	4913.0	3628.7	2765.3	2246.1	1978.3	1907.3	1890.9
52.5°	11886.3	10432.6	8006.1	6191.8	4459.4	3060.4	2306.2	1852.6	1672.3	1623.1	1617.6
55°	12509.3	10776.9	8028.0	5902.1	3912.9	2524.8	1918.2	1595.8	1475.5	1448.2	1442.7
57.5°	13268.9	11219.5	8093.6	5563.3	3339.1	2060.3	1634.0	1437.3	1360.8	1338.9	1338.9
60°	14094.1	11722.3	8213.8	5180.8	2765.3	1699.6	1448.2	1311.6	1278.8	1306.1	1306.1
62.5°	14984.9	12312.5	8427.0	4716.3	2229.7	1437.3	1300.7	1207.8	1185.9	1240.5	1246.0
65°	15810.1	12886.3	8563.6	4158.8	1770.6	1246.0	1185.9	1103.9	1114.8	1169.5	1164.0
67.5°	16318.3	13361.8	8372.3	3459.3	1404.5	1103.9	1065.7	994.6	1021.9	1065.7	1071.1
70°	16006.8	13094.0	7426.9	2612.2	1098.5	961.8	934.5	890.8	912.6	967.3	989.2
72.5°	14482.1	11727.8	5776.5	1765.2	885.3	808.8	819.7	797.9	825.2	874.4	923.6
75°	11755.1	8864.1	3874.6	1131.2	699.5	688.6	705.0	688.6	699.5	748.7	776.0
77.5°	6137.1	4322.8	1929.1	705.0	519.2	535.6	562.9	568.4	601.1	612.1	623.0
80°	2863.6	1945.5	803.3	393.5	344.3	377.1	431.7	437.2	448.1	464.5	470.0
82.5°	934.5	584.7	371.6	213.1	196.7	213.1	278.7	333.4	338.8	371.6	371.6
85°	98.4	60.1	82.0	87.4	76.5	92.9	125.7	120.2	54.6	32.8	32.8
87.5°	27.3	21.9	27.3	27.3	21.9	21.9	16.4	5.5	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)