

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: P842101

Luminaire Tested: **ARCH4-270-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26880 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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



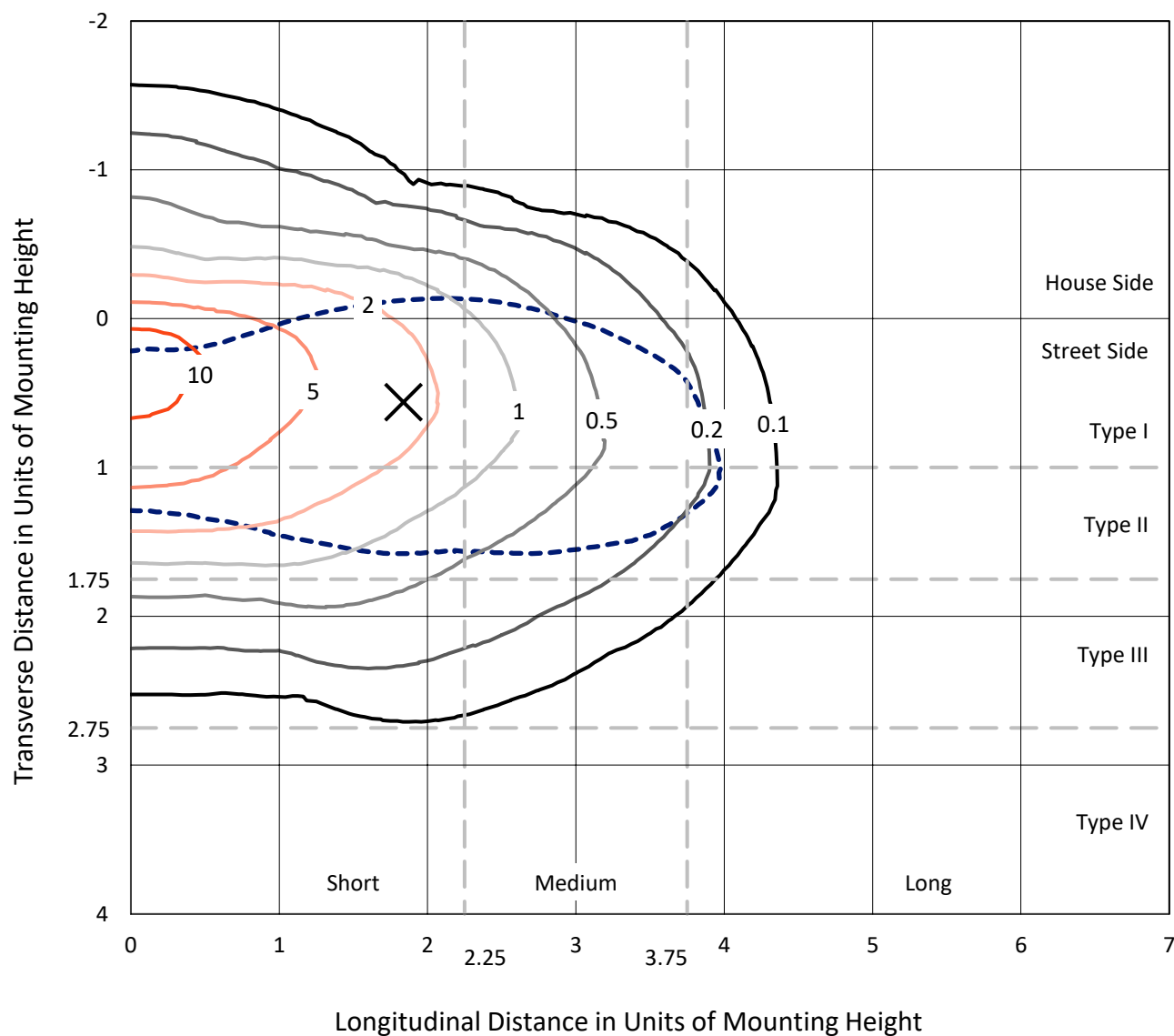
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

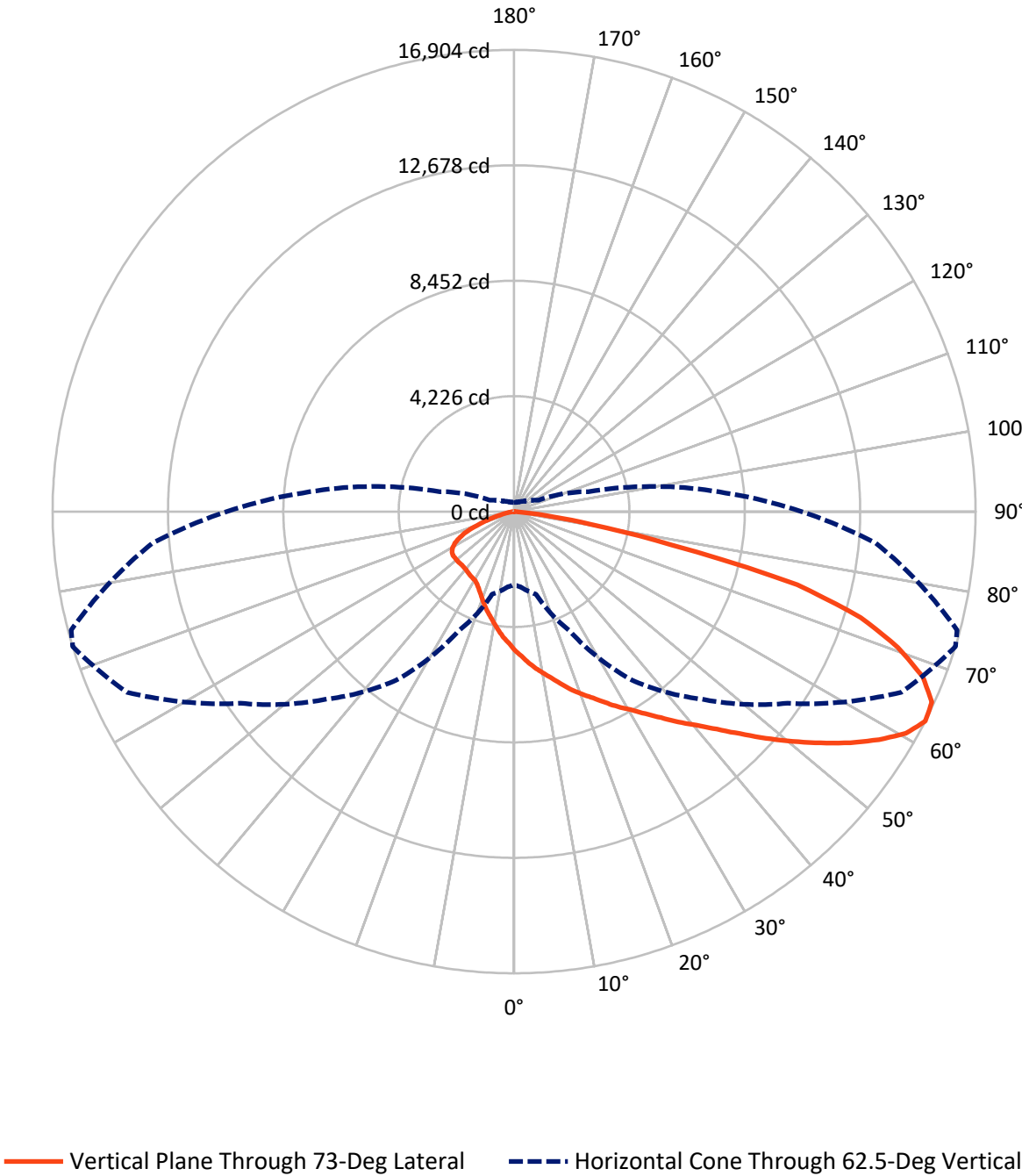


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc

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	4166.8	0.0	4166.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	22713.2	0.0	22713.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	26880.0	0.0	26880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	1.8
10°-20°	1483.7	5.5
20°-30°	2469.7	9.2
30°-40°	3726.4	13.9
40°-50°	5208.6	19.4
50°-60°	5753.2	21.4
60°-70°	5011.8	18.6
70°-80°	2531.7	9.4
80°-90°	203.2	0.8
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°	26880.0	100.0
0°-180°	26880.0	100.0

Coefficient of Utilization



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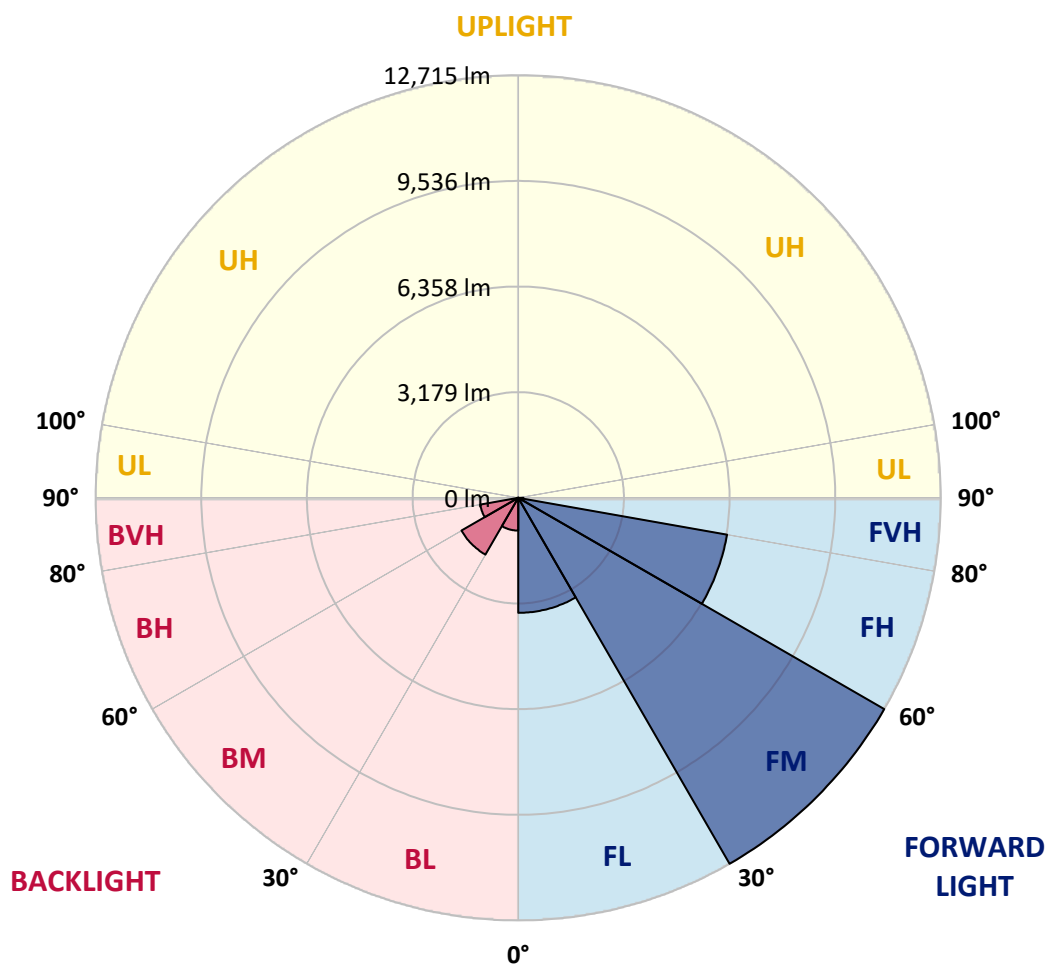
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3460.3	12.9			
FM	(30°-60°)	12715.2	47.3			
FH	(60°-80°)	6380.4	23.7			G3/7500
FVH	(80°-90°)	157.3	0.6			G2/225
BL	(0°-30°)	984.9	3.7	B2/1000		
BM	(30°-60°)	1973.0	7.3	B2/2500		
BH	(60°-80°)	1163.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	45.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8
2.5°	5792.6	5857.1	5821.9	5845.3	5728.2	5652.1	5564.2	5394.4	5300.6	5288.9	5177.6
5°	6641.9	6712.2	6653.6	6636.0	6431.1	6255.3	6056.2	5757.5	5558.3	5523.2	5277.2
7.5°	7491.2	7555.6	7485.3	7432.6	7157.3	6846.9	6554.0	6114.8	5804.3	5745.8	5359.2
10°	8088.6	8147.2	8094.5	8041.7	7754.7	7438.5	7022.6	6448.6	6026.9	5933.2	5411.9
12.5°	8539.6	8574.7	8551.3	8504.5	8235.0	7895.3	7497.0	6823.5	6278.8	6161.6	5493.9
15°	8908.6	8967.2	8937.9	8902.7	8645.0	8305.3	7924.6	7215.9	6571.6	6425.2	5616.9
17.5°	9154.6	9195.6	9201.4	9201.4	8973.0	8639.2	8270.2	7573.2	6864.5	6677.0	5734.1
20°	9265.9	9312.7	9342.0	9388.9	9201.4	8914.4	8539.6	7877.7	7139.8	6928.9	5845.3
22.5°	9318.6	9359.6	9435.7	9541.2	9388.9	9148.7	8803.2	8158.9	7415.0	7192.5	5974.2
25°	9359.6	9412.3	9523.6	9722.7	9617.3	9412.3	9113.6	8481.0	7743.0	7514.6	6161.6
27.5°	9470.9	9535.3	9640.7	9880.9	9752.0	9652.4	9441.6	8826.6	8088.6	7854.3	6390.1
30°	9857.4	9910.1	9904.3	10056.6	9898.4	9869.1	9722.7	9160.4	8422.5	8188.2	6659.5
32.5°	10560.3	10613.0	10484.1	10425.6	10080.0	10085.9	10027.3	9517.7	8820.7	8580.6	6969.9
35°	11315.8	11374.4	11204.6	11105.0	10525.1	10355.3	10384.6	9962.9	9265.9	9025.7	7356.5
37.5°	11989.4	12059.7	11913.3	11766.8	11181.1	10788.7	10782.8	10460.7	9775.4	9529.4	7784.0
40°	12358.4	12440.4	12528.3	12446.3	11831.3	11397.8	11210.4	10970.3	10279.1	10027.3	8246.7
42.5°	12534.1	12762.5	12920.7	12868.0	12364.3	11925.0	11702.4	11503.3	10894.1	10648.1	8797.3
45°	12042.1	12048.0	12381.8	12668.8	12575.1	12282.3	12241.3	12100.7	11597.0	11362.7	9418.2
47.5°	11427.1	11380.3	11614.5	12124.1	12387.7	12463.8	12704.0	12762.5	12399.4	12165.1	10050.7
50°	9951.1	9980.4	10741.8	11474.0	11989.4	12481.4	13032.0	13442.0	13225.2	13002.7	10718.4
52.5°	8094.5	8164.7	9037.4	10648.1	11462.3	12305.7	13225.2	14121.4	14068.7	13857.8	11386.1
55°	6489.6	6600.9	7526.3	9271.7	10788.7	11913.3	13307.2	14742.2	14941.4	14748.1	12042.1
57.5°	4960.9	5078.1	5857.1	7649.3	9927.7	11274.8	13248.7	15286.9	15755.5	15632.5	12645.4
60°	3736.8	3853.9	4351.8	6202.6	8850.0	10560.3	12955.8	15644.2	16487.6	16358.8	13084.7
62.5°	2676.7	2770.4	3139.4	4826.2	7538.0	9711.0	12235.4	15650.1	16903.5	16798.0	13295.5
65°	1927.0	1927.0	2225.7	3444.0	6308.1	8691.9	11146.0	14929.6	16815.6	16786.3	13149.1
67.5°	1388.1	1399.8	1640.0	2407.3	5031.2	7456.0	9734.4	13646.9	16136.2	16282.6	12622.0
70°	984.0	1013.3	1124.6	1681.0	3801.2	5886.3	8223.3	11966.0	14912.1	15169.8	11602.8
72.5°	761.4	779.0	855.1	1171.4	2776.2	4375.2	6554.0	10091.7	13278.0	13570.8	10214.7
75°	585.7	603.3	661.8	861.0	1991.4	3069.1	4656.4	7830.9	10706.7	11228.0	8205.7
77.5°	427.6	451.0	492.0	626.7	1159.7	1950.4	2823.1	4404.5	5909.8	6155.8	4299.1
80°	199.1	228.4	287.0	404.1	626.7	919.6	1001.6	1698.5	2840.7	2969.5	2331.1
82.5°	111.3	140.6	164.0	246.0	316.3	328.0	339.7	427.6	1071.8	1183.1	978.1
85°	52.7	70.3	76.1	105.4	105.4	93.7	111.3	82.0	175.7	210.9	205.0
87.5°	0.0	5.9	11.7	29.3	23.4	17.6	17.6	17.6	17.6	23.4	17.6
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°	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8	5089.8
2.5°	5124.9	5048.8	4873.1	4720.8	4621.2	4533.4	4416.2	4363.5	4269.8	4287.4	4234.7
5°	5154.2	5013.6	4703.2	4416.2	4205.4	4017.9	3812.9	3695.8	3566.9	3555.2	3514.2
7.5°	5171.8	4955.1	4509.9	4105.8	3783.7	3496.7	3221.4	3069.1	2911.0	2875.8	2840.7
10°	5154.2	4867.2	4310.8	3783.7	3356.1	2998.8	2688.4	2495.1	2331.1	2290.1	2255.0
12.5°	5171.8	4820.4	4123.4	3485.0	2975.4	2571.2	2219.8	2020.7	1868.4	1827.4	1804.0
15°	5212.8	4791.1	3965.2	3215.5	2635.7	2184.7	1839.1	1669.3	1546.3	1505.3	1493.6
17.5°	5247.9	4761.8	3795.4	2952.0	2296.0	1845.0	1546.3	1405.7	1300.3	1259.3	1247.6
20°	5294.8	4720.8	3625.5	2700.1	1997.3	1575.5	1312.0	1189.0	1107.0	1077.7	1071.8
22.5°	5335.8	4691.5	3467.4	2448.3	1722.0	1358.8	1136.3	1036.7	978.1	948.8	948.8
25°	5441.2	4703.2	3332.7	2214.0	1517.0	1189.0	1001.6	925.4	878.6	861.0	861.0
27.5°	5564.2	4750.1	3227.2	2014.8	1341.3	1060.1	907.8	843.4	820.0	796.6	802.4
30°	5739.9	4843.8	3157.0	1850.8	1212.4	960.6	831.7	784.8	761.4	755.6	755.6
32.5°	5962.5	4996.1	3151.1	1745.4	1118.7	884.4	779.0	738.0	726.3	720.4	720.4
35°	6226.1	5130.8	3116.0	1698.5	1060.1	831.7	738.0	708.7	702.8	702.8	702.8
37.5°	6542.3	5353.4	3092.5	1634.1	1030.8	802.4	708.7	685.3	685.3	685.3	685.3
40°	6870.3	5534.9	3057.4	1575.5	1019.1	784.8	691.1	661.8	661.8	661.8	661.8
42.5°	7262.8	5798.5	3045.7	1546.3	1001.6	773.1	667.7	632.6	638.4	638.4	644.3
45°	7737.2	6097.2	3039.8	1517.0	995.7	761.4	644.3	603.3	609.1	603.3	603.3
47.5°	8217.5	6442.8	3057.4	1499.4	989.8	749.7	626.7	574.0	574.0	568.1	568.1
50°	8721.2	6759.0	3069.1	1481.8	978.1	726.3	597.4	550.6	538.8	527.1	533.0
52.5°	9195.6	7051.9	3075.0	1452.6	943.0	691.1	574.0	521.3	503.7	486.1	492.0
55°	9670.0	7333.0	3086.7	1417.4	896.1	656.0	544.7	492.0	468.6	445.1	445.1
57.5°	10097.6	7579.0	3057.4	1329.6	843.4	620.8	515.4	456.9	421.7	398.3	398.3
60°	10390.4	7754.7	2969.5	1200.7	773.1	579.8	486.1	421.7	380.7	363.1	363.1
62.5°	10531.0	7784.0	2811.4	989.8	685.3	538.8	451.0	386.6	351.4	339.7	339.7
65°	10396.3	7655.2	2565.4	743.8	591.6	492.0	415.9	357.3	322.1	292.9	292.9
67.5°	9927.7	7292.0	2225.7	562.3	503.7	445.1	380.7	328.0	287.0	263.6	263.6
70°	8984.7	6536.5	1722.0	451.0	427.6	386.6	345.6	292.9	257.7	228.4	228.4
72.5°	7748.9	5540.8	1212.4	363.1	363.1	328.0	292.9	257.7	222.6	199.1	199.1
75°	5944.9	4099.9	814.1	292.9	298.7	275.3	240.1	210.9	187.4	169.9	169.9
77.5°	3244.8	2026.5	497.9	216.7	222.6	210.9	187.4	169.9	158.1	140.6	140.6
80°	1575.5	890.3	287.0	152.3	158.1	152.3	140.6	123.0	123.0	111.3	111.3
82.5°	661.8	333.9	152.3	105.4	105.4	93.7	87.9	87.9	87.9	82.0	82.0
85°	164.0	64.4	64.4	58.6	58.6	58.6	52.7	52.7	52.7	41.0	46.9
87.5°	23.4	23.4	23.4	23.4	23.4	23.4	17.6	5.9	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)