

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: P400160

Luminaire Tested: **ARCH-L-PA3-240-750-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-240-750-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32803 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

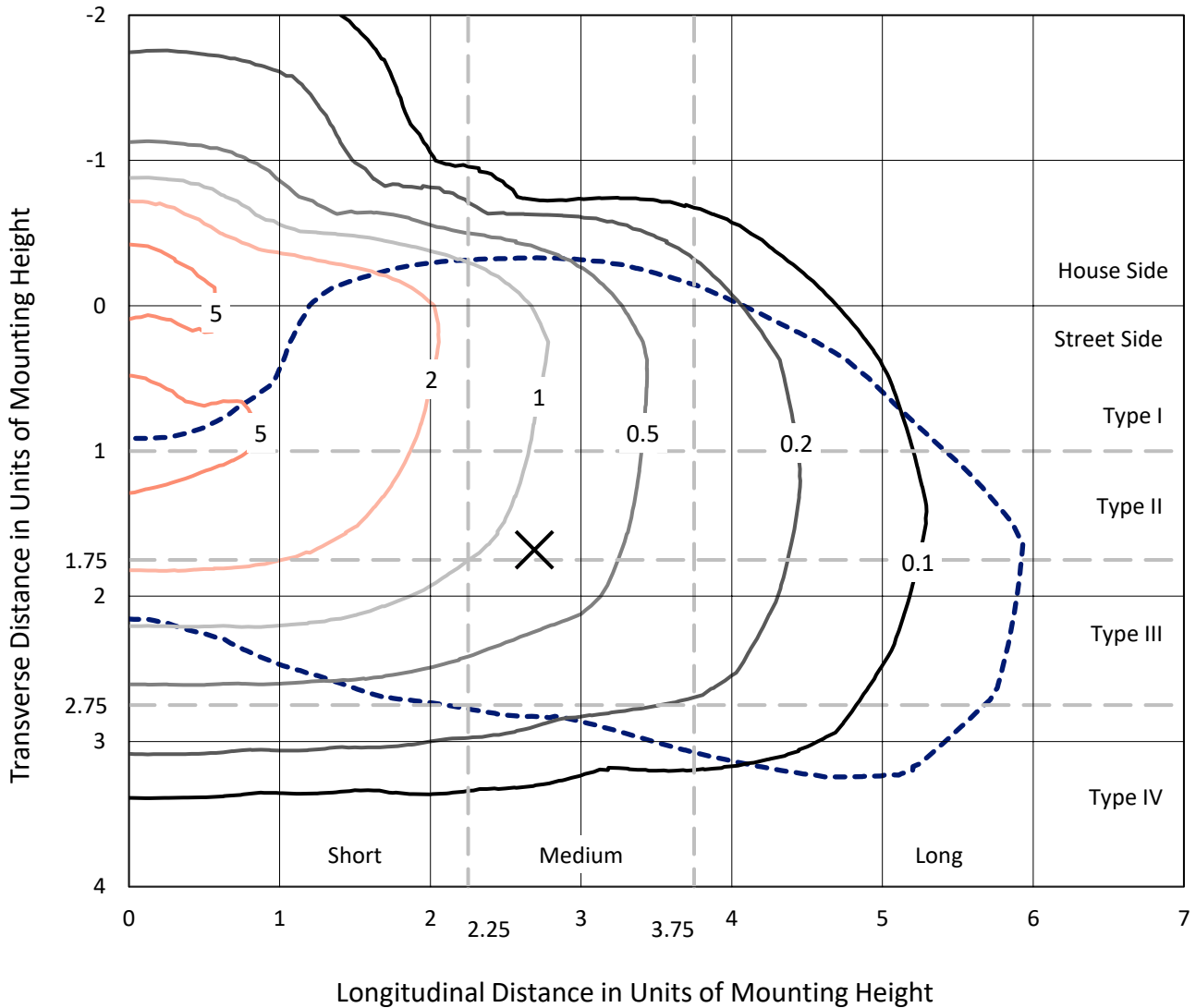
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

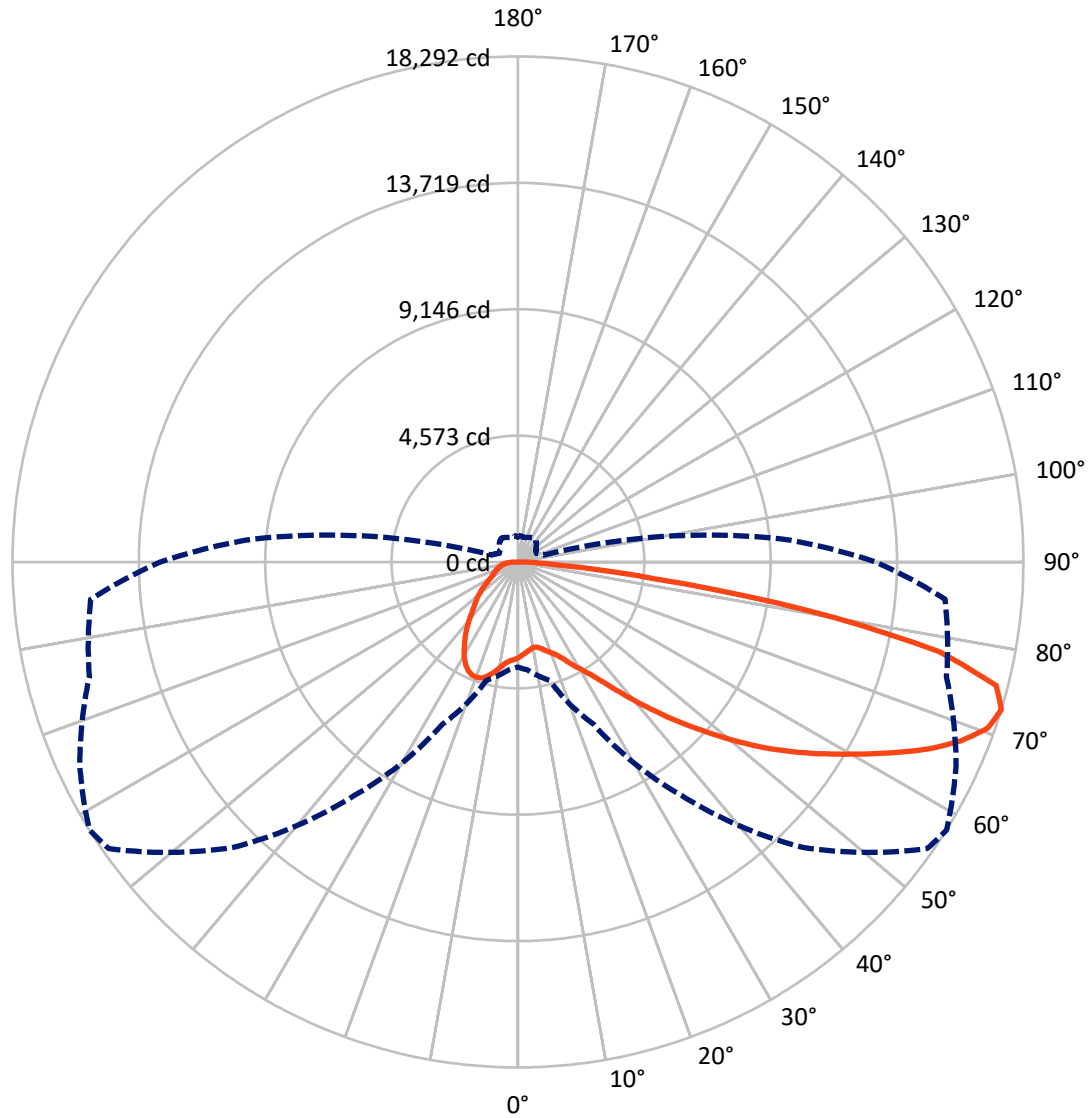
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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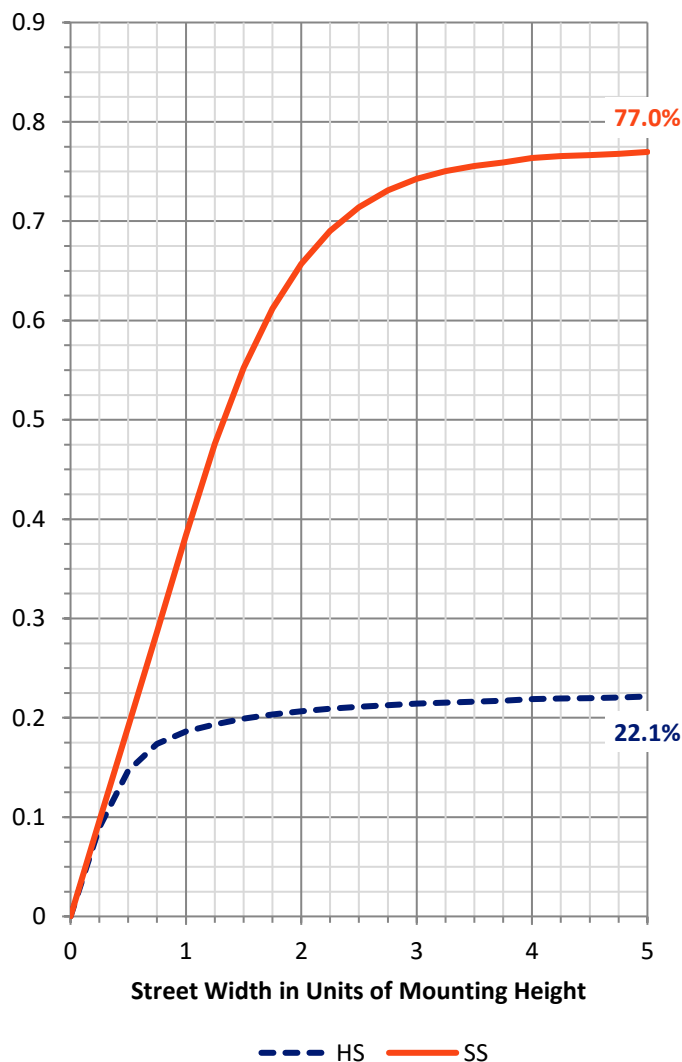
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7439.3	0.0	7439.3
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	25363.7	0.0	25363.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	32803.0	0.0	32803.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.3	1.0
10°-20°	1058.5	3.2
20°-30°	1896.1	5.8
30°-40°	2852.3	8.7
40°-50°	4618.9	14.1
50°-60°	6952.9	21.2
60°-70°	8182.9	24.9
70°-80°	5802.4	17.7
80°-90°	1105.6	3.4
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°	32803.0	100.0
0°-180°	32803.0	100.0



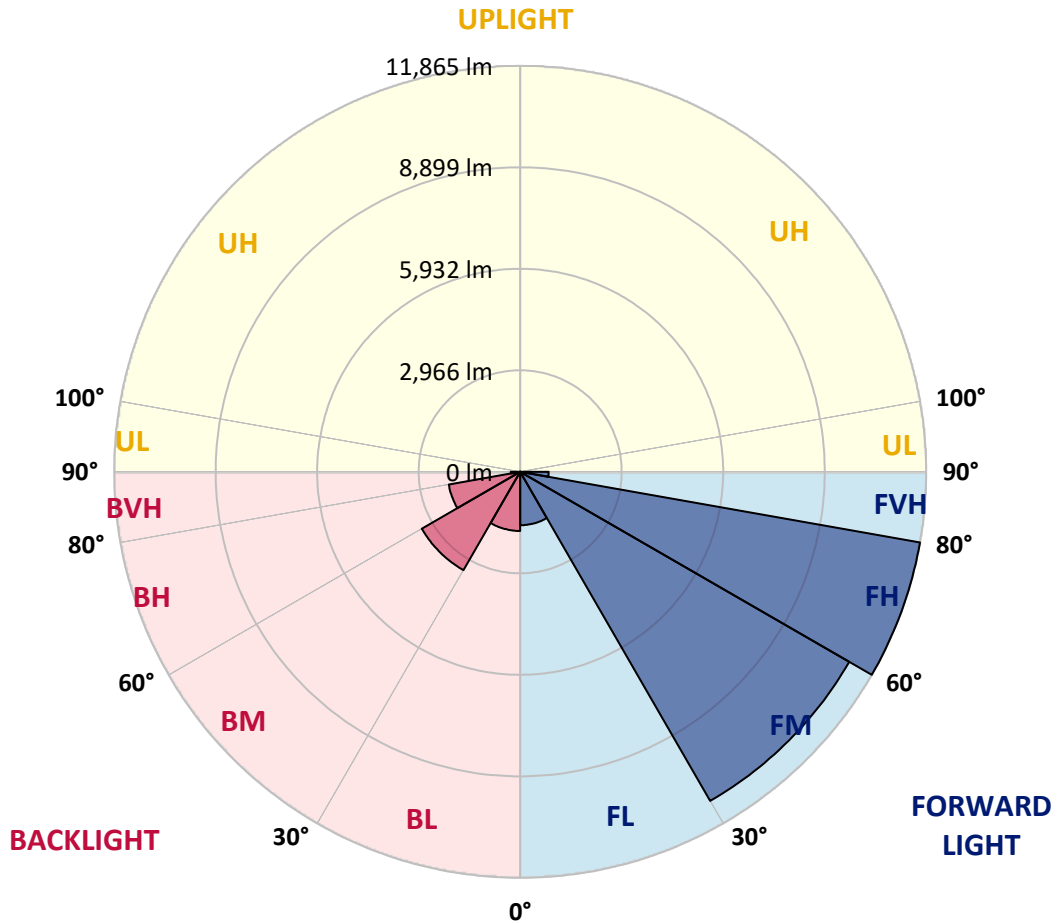
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.9	4.8			
FM (30°-60°)	11104.8	33.9			
FH (60°-80°)	11865.0	36.2			G4/12000
FVH (80°-90°)	834.0	2.5			G5
BL (0°-30°)	1728.0	5.3	B3/2500		
BM (30°-60°)	3319.4	10.1	B3/5000		
BH (60°-80°)	2120.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	271.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0
2.5°	3330.1	3312.8	3317.1	3317.1	3334.4	3343.1	3347.4	3360.4	3369.1	3390.7	3421.0
5°	3174.2	3161.2	3165.5	3169.9	3200.2	3230.5	3256.5	3273.8	3299.8	3334.4	3377.7
7.5°	3061.6	3053.0	3057.3	3065.9	3091.9	3126.6	3169.9	3195.9	3234.8	3299.8	3373.4
10°	2979.3	2979.3	2983.7	3001.0	3027.0	3070.3	3104.9	3135.2	3213.2	3330.1	3442.7
12.5°	2914.4	2914.4	2927.4	2962.0	3005.3	3048.6	3130.9	3165.5	3269.5	3429.7	3563.9
15°	2910.1	2914.4	2918.7	2949.0	2996.7	3091.9	3213.2	3265.1	3390.7	3581.3	3737.2
17.5°	2979.3	2983.7	2966.3	2975.0	3031.3	3165.5	3325.8	3386.4	3546.6	3754.5	3914.7
20°	3191.5	3191.5	3139.6	3091.9	3130.9	3278.1	3460.0	3520.6	3698.2	3927.7	4087.9
22.5°	3624.6	3646.2	3525.0	3421.0	3360.4	3442.7	3607.3	3672.2	3871.4	4118.2	4278.5
25°	4148.6	4170.2	4005.7	3858.4	3745.8	3732.8	3841.1	3910.4	4074.9	4330.4	4464.7
27.5°	4655.2	4616.2	4464.7	4326.1	4183.2	4066.3	4148.6	4209.2	4399.7	4594.6	4676.9
30°	5053.6	5023.3	4876.1	4776.5	4642.2	4490.7	4443.0	4508.0	4663.9	4845.8	4889.1
32.5°	5495.3	5473.7	5326.4	5196.5	5083.9	4941.0	4837.1	4867.4	4954.0	5083.9	5109.9
35°	6058.3	6105.9	5950.0	5685.9	5560.3	5421.7	5348.1	5356.8	5421.7	5504.0	5460.7
37.5°	6651.6	6707.8	6716.5	6300.8	6131.9	6006.3	5928.4	5958.7	6036.6	6092.9	5958.7
40°	7751.5	7695.2	7470.0	7162.5	6902.7	6781.5	6673.2	6668.9	6725.2	6824.8	6582.3
42.5°	9210.8	9158.9	8704.2	8305.8	7894.4	7755.8	7543.6	7452.7	7478.7	7604.2	7266.5
45°	10609.6	10587.9	10224.2	9760.8	9267.1	8998.6	8513.6	8292.8	8271.1	8370.7	7968.0
47.5°	11852.4	11757.1	11493.0	11133.6	11081.6	10380.1	9488.0	9189.2	9085.3	9141.6	8691.2
50°	13181.9	12857.1	12493.3	12272.5	12649.2	11995.3	10471.0	10159.2	9903.7	9942.7	9475.0
52.5°	13887.7	13342.1	13103.9	13168.9	13675.5	13424.4	11540.6	11159.5	10748.1	10804.4	10254.5
55°	13281.5	13277.1	13381.1	13783.8	14489.6	14199.5	12558.3	12129.6	11679.2	11692.2	11150.9
57.5°	12450.0	12618.9	13155.9	14043.6	15498.6	15013.6	13558.6	13103.9	12692.5	12627.6	12168.5
60°	11692.2	11878.4	12657.9	14000.3	15849.4	15758.5	14511.3	14112.9	13779.5	13588.9	13238.1
62.5°	10540.3	10678.9	11783.1	13723.2	15554.9	16295.4	15477.0	15204.2	14953.0	14558.9	14390.0
65°	9184.9	9232.5	10397.4	12809.4	15186.8	16503.3	16438.3	16317.1	16074.6	15494.3	15528.9
67.5°	7716.8	7812.1	8834.1	11350.1	14381.4	16408.0	17183.2	17282.8	16997.0	16126.5	16256.5
70°	6153.6	6270.5	7045.6	9332.1	13013.0	15996.6	17871.7	18031.9	17482.0	16334.4	16390.7
72.5°	3806.5	3919.0	4438.7	6482.7	10315.1	14615.2	18083.9	18291.8	17495.0	16057.3	15516.0
75°	1316.5	1329.4	1736.5	3109.3	6123.2	11034.0	17391.0	17880.4	16945.0	15048.3	13502.3
77.5°	601.9	623.6	770.8	1281.8	2715.2	5954.4	14359.7	15585.2	15273.5	13472.0	10393.0
80°	415.7	424.4	532.6	766.5	1567.6	2095.9	9063.6	10661.5	11207.2	10432.0	6660.2
82.5°	311.8	320.5	411.4	519.7	1130.2	1017.7	3451.4	4954.0	6157.9	6045.3	2784.5
85°	298.8	294.5	320.5	346.4	753.5	606.3	1117.3	1533.0	2403.4	2057.0	701.5
87.5°	129.9	142.9	329.1	194.9	394.1	281.5	485.0	567.3	731.8	636.6	251.2
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°	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0	3460.0
2.5°	3434.0	3442.7	3468.7	3507.7	3529.3	3572.6	3602.9	3620.2	3633.2	3637.6	3637.6
5°	3403.7	3421.0	3477.3	3542.3	3602.9	3693.9	3776.1	3823.8	3858.4	3871.4	3875.7
7.5°	3412.4	3455.7	3538.0	3633.2	3711.2	3828.1	3927.7	4023.0	4100.9	4131.2	4131.2
10°	3494.7	3555.3	3667.9	3793.5	3893.1	4014.3	4118.2	4200.5	4291.5	4343.4	4352.1
12.5°	3620.2	3693.9	3841.1	3979.7	4092.3	4187.5	4282.8	4343.4	4386.7	4425.7	4434.4
15°	3797.8	3888.7	4036.0	4178.9	4278.5	4339.1	4365.1	4365.1	4360.8	4365.1	4373.7
17.5°	3975.3	4061.9	4209.2	4352.1	4399.7	4365.1	4334.8	4326.1	4321.8	4313.1	4317.4
20°	4148.6	4230.8	4356.4	4464.7	4425.7	4304.5	4265.5	4261.1	4248.2	4239.5	4230.8
22.5°	4321.8	4382.4	4486.3	4525.3	4369.4	4196.2	4148.6	4122.6	4105.3	4083.6	4061.9
25°	4521.0	4538.3	4616.2	4555.6	4230.8	3997.0	3927.7	3888.7	3871.4	3849.8	3832.4
27.5°	4707.2	4707.2	4720.2	4508.0	4027.3	3732.8	3628.9	3559.6	3555.3	3551.0	3546.6
30°	4876.1	4854.4	4811.1	4365.1	3763.1	3408.1	3252.2	3182.9	3208.9	3230.5	3234.8
32.5°	5075.3	5032.0	4910.7	4170.2	3447.0	3044.3	2853.8	2823.4	2853.8	2879.7	2862.4
35°	5387.1	5309.1	5014.6	3945.0	3143.9	2710.9	2529.0	2485.7	2477.0	2472.7	2438.0
37.5°	5833.1	5698.9	5096.9	3702.5	2845.1	2416.4	2282.1	2191.2	2108.9	2022.3	2009.3
40°	6378.7	6149.2	5153.2	3425.4	2529.0	2169.5	2026.6	1909.7	1771.1	1619.6	1602.3
42.5°	6976.3	6634.2	5179.2	3117.9	2251.8	1966.0	1788.5	1641.2	1485.3	1368.4	1346.8
45°	7621.6	7158.2	5157.6	2823.4	2026.6	1792.8	1593.6	1433.4	1307.8	1225.5	1208.2
47.5°	8249.5	7760.1	5096.9	2589.6	1853.4	1645.6	1442.0	1294.8	1199.5	1108.6	1086.9
50°	9054.9	8336.1	5023.3	2407.7	1662.9	1498.3	1346.8	1190.9	1082.6	1039.3	1030.6
52.5°	9947.0	8912.0	4936.7	2178.2	1476.7	1381.4	1286.1	1147.6	1112.9	1030.6	1017.7
55°	10912.7	9596.2	4919.4	1888.1	1312.1	1299.1	1225.5	1186.5	1195.2	1030.6	1009.0
57.5°	11930.4	10328.1	4958.4	1597.9	1177.9	1225.5	1251.5	1221.2	1208.2	1052.3	1009.0
60°	12991.3	11034.0	4841.4	1329.4	1073.9	1164.9	1281.8	1203.9	1108.6	1043.6	1013.3
62.5°	14022.0	11627.2	4334.8	1138.9	996.0	1147.6	1264.5	1138.9	1030.6	1030.6	1017.7
65°	14771.1	11891.4	3390.7	1000.3	944.0	1125.9	1234.2	1095.6	1009.0	1039.3	1022.0
67.5°	14857.7	11618.6	2277.8	892.1	900.7	1086.9	1164.9	1056.6	987.3	1065.3	1039.3
70°	14325.1	10908.4	1394.4	809.8	844.4	1017.7	1104.3	1017.7	957.0	1043.6	1004.7
72.5°	12943.7	9583.3	983.0	740.5	783.8	952.7	1048.0	983.0	913.7	944.0	905.1
75°	10618.2	7426.7	779.5	675.5	723.2	892.1	1000.3	931.0	861.8	848.8	822.8
77.5°	7522.0	4759.2	627.9	623.6	658.2	818.5	935.4	870.4	801.1	775.1	757.8
80°	4326.1	2334.1	541.3	563.0	597.6	744.8	857.4	801.1	736.2	697.2	671.2
82.5°	1654.2	814.1	476.3	489.3	528.3	666.9	779.5	731.8	666.9	701.5	588.9
85°	537.0	446.0	389.7	402.7	441.7	554.3	688.5	649.6	575.9	511.0	472.0
87.5°	238.2	242.5	207.9	229.5	277.1	368.1	502.3	476.3	420.1	350.8	337.8
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)