

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: P400088

Luminaire Tested: **ARCH-L-PA3-230-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400088
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-PA3-230-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31730 lumens
Efficiency: N/A
Efficacy: 138.6 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

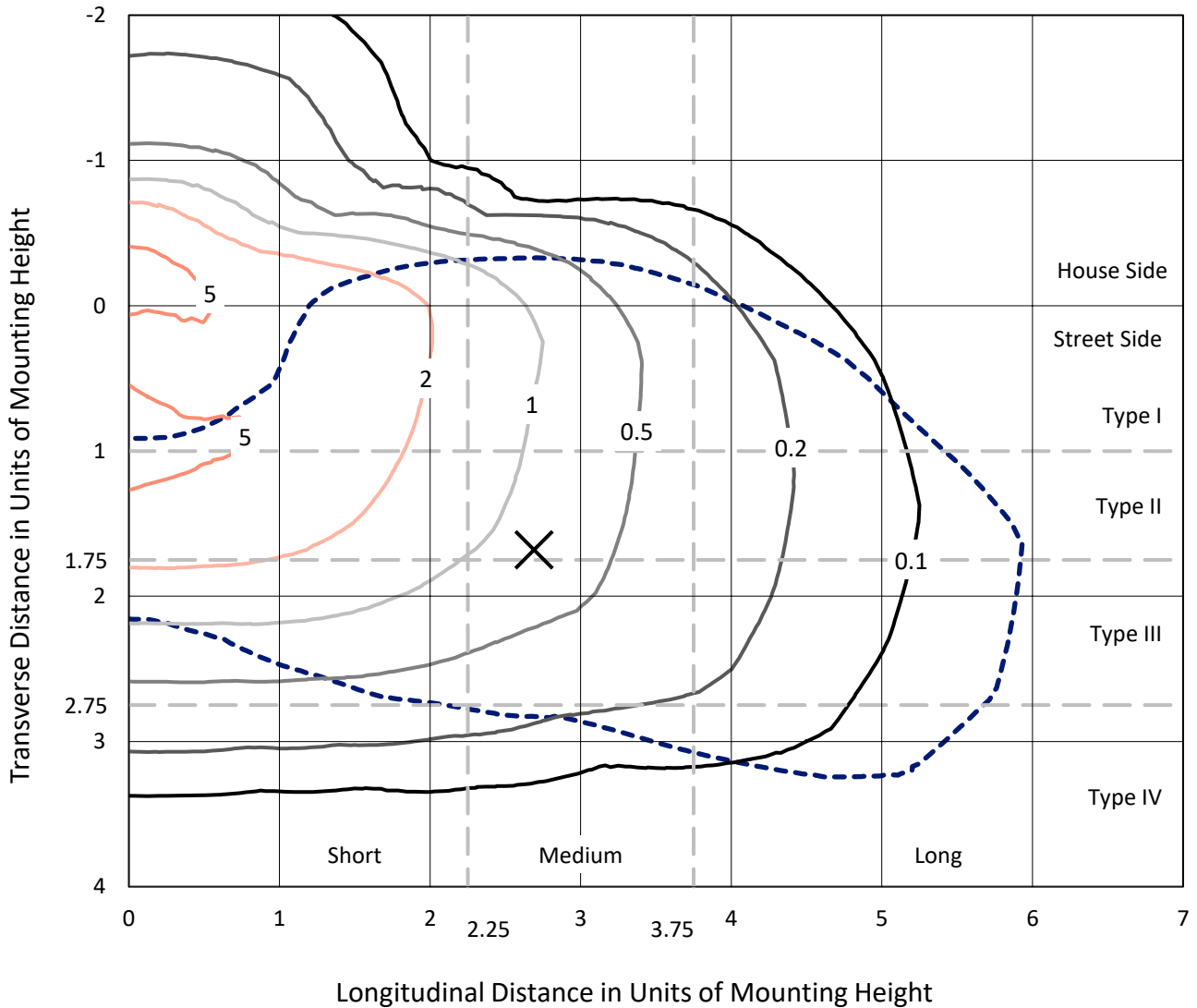
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

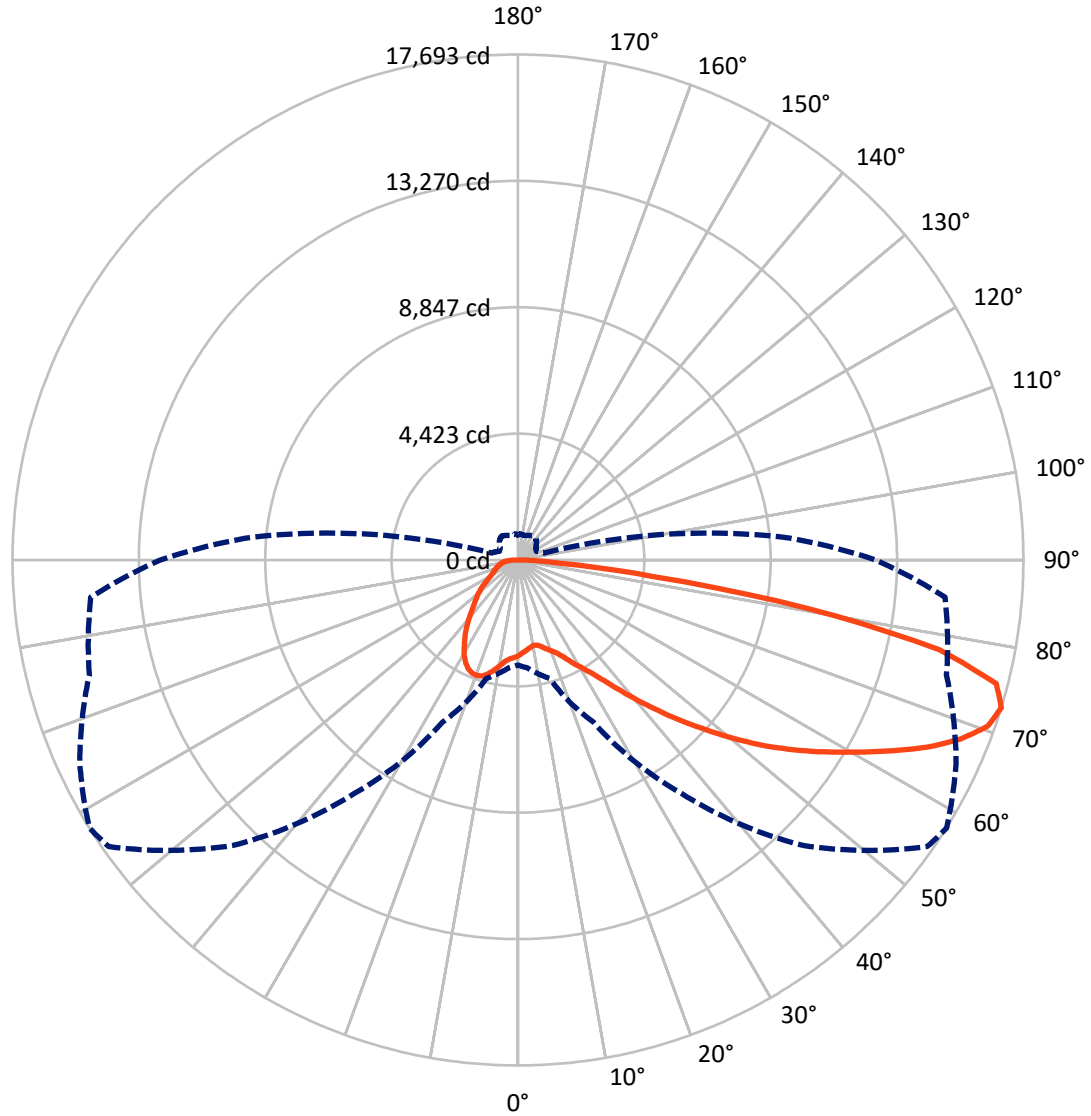
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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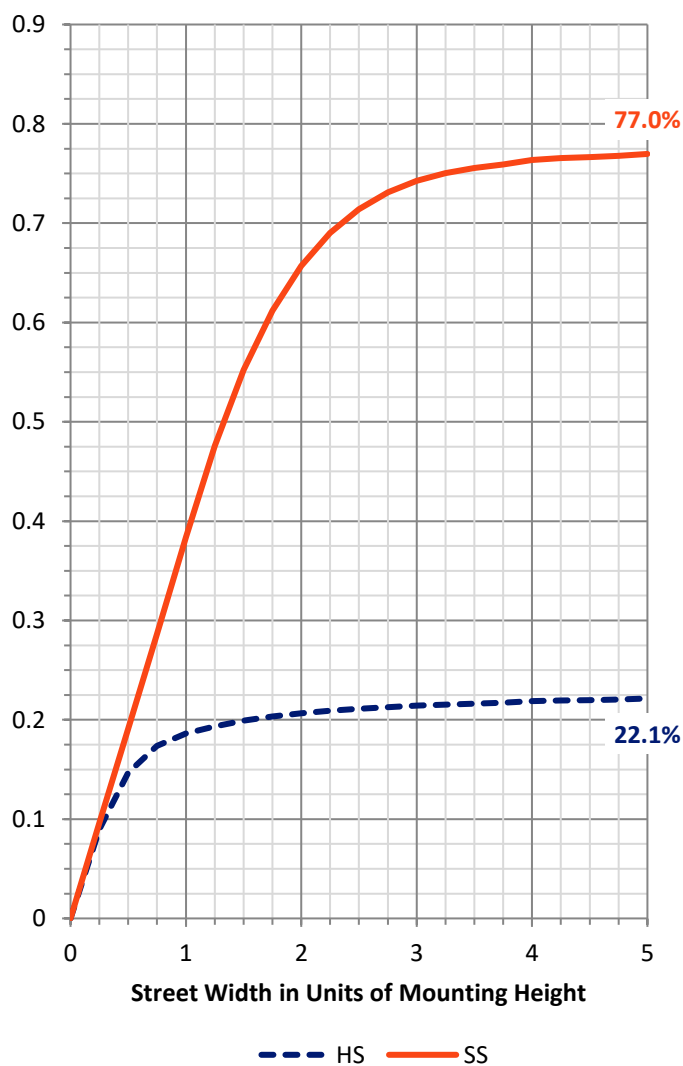
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7196.0	0.0	7196.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24534.0	0.0	24534.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	31730.0	0.0	31730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.0
10°-20°	1023.9	3.2
20°-30°	1834.1	5.8
30°-40°	2759.0	8.7
40°-50°	4467.8	14.1
50°-60°	6725.5	21.2
60°-70°	7915.2	24.9
70°-80°	5612.6	17.7
80°-90°	1069.5	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°	31730.0	100.0
0°-180°	31730.0	100.0

Coefficient of Utilization



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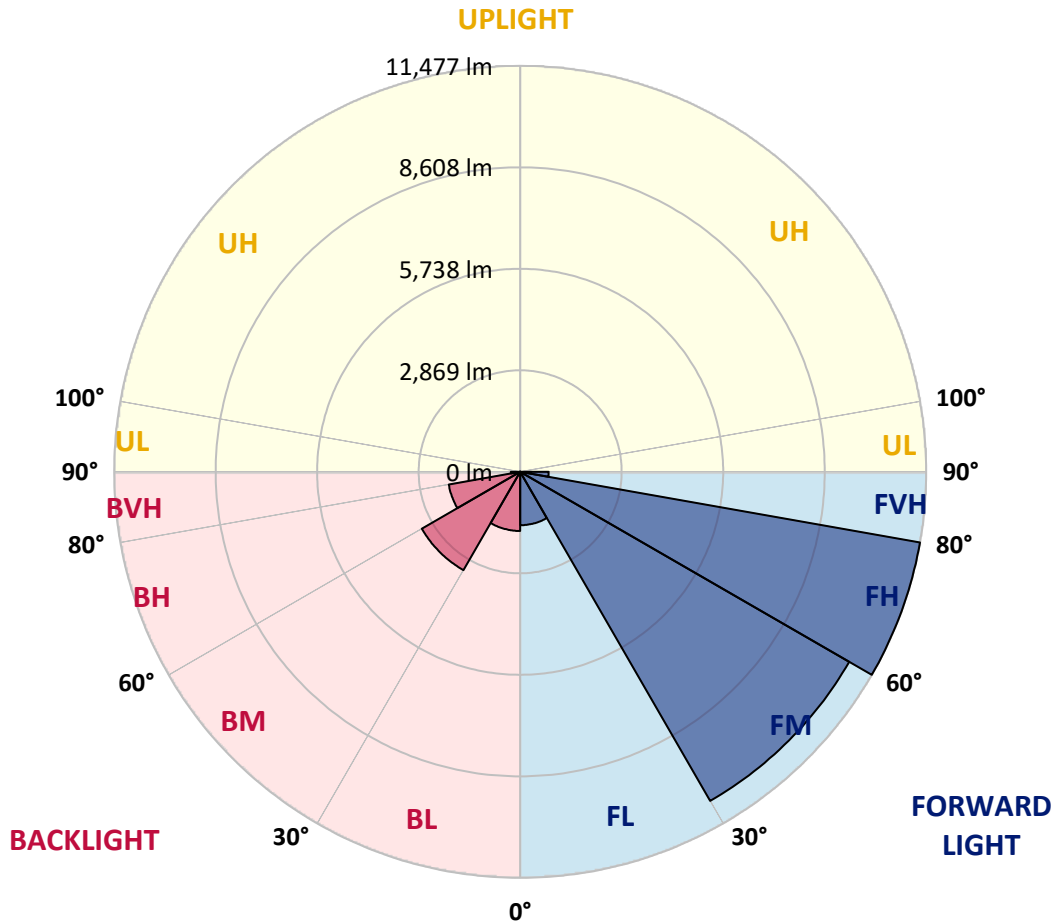
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.9	4.8			
FM (30°-60°)	10741.5	33.9			
FH (60°-80°)	11476.9	36.2			G4/12000
FVH (80°-90°)	806.7	2.5			G5
BL (0°-30°)	1671.5	5.3	B3/2500		
BM (30°-60°)	3210.8	10.1	B3/5000		
BH (60°-80°)	2050.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	262.8	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°	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8
2.5°	3221.2	3204.4	3208.6	3208.6	3225.4	3233.7	3237.9	3250.5	3258.9	3279.8	3309.1
5°	3070.4	3057.8	3062.0	3066.2	3095.5	3124.8	3150.0	3166.7	3191.9	3225.4	3267.3
7.5°	2961.5	2953.1	2957.3	2965.7	2990.8	3024.3	3066.2	3091.3	3129.0	3191.9	3263.1
10°	2881.9	2881.9	2886.1	2902.8	2928.0	2969.8	3003.4	3032.7	3108.1	3221.2	3330.1
12.5°	2819.1	2819.1	2831.6	2865.1	2907.0	2948.9	3028.5	3062.0	3162.5	3317.5	3447.4
15°	2814.9	2819.1	2823.2	2852.6	2898.6	2990.8	3108.1	3158.3	3279.8	3464.1	3614.9
17.5°	2881.9	2886.1	2869.3	2877.7	2932.2	3062.0	3217.0	3275.6	3430.6	3631.7	3786.7
20°	3087.1	3087.1	3036.9	2990.8	3028.5	3170.9	3346.8	3405.5	3577.2	3799.2	3954.2
22.5°	3506.0	3527.0	3409.7	3309.1	3250.5	3330.1	3489.3	3552.1	3744.8	3983.5	4138.5
25°	4012.9	4033.8	3874.6	3732.2	3623.3	3610.7	3715.5	3782.5	3941.6	4188.8	4318.6
27.5°	4502.9	4465.2	4318.6	4184.6	4046.4	3933.3	4012.9	4071.5	4255.8	4444.3	4523.9
30°	4888.3	4859.0	4716.6	4620.2	4490.4	4343.8	4297.7	4360.5	4511.3	4687.3	4729.1
32.5°	5315.6	5294.6	5152.2	5026.5	4917.6	4779.4	4678.9	4708.2	4792.0	4917.6	4942.8
35°	5860.1	5906.2	5755.4	5499.9	5378.4	5244.4	5173.2	5181.5	5244.4	5323.9	5282.1
37.5°	6434.0	6488.4	6496.8	6094.7	5931.3	5809.8	5734.4	5763.8	5839.2	5893.6	5763.8
40°	7497.9	7443.5	7225.7	6928.3	6676.9	6559.6	6454.9	6450.7	6505.2	6601.5	6367.0
42.5°	8909.5	8859.3	8419.5	8034.1	7636.2	7502.1	7296.9	7208.9	7234.0	7355.5	7028.8
45°	10262.5	10241.6	9889.7	9441.5	8964.0	8704.3	8235.2	8021.5	8000.6	8096.9	7707.4
47.5°	11464.7	11372.6	11117.0	10769.4	10719.1	10040.5	9177.6	8888.6	8788.1	8842.5	8406.9
50°	12750.7	12436.5	12084.6	11871.0	12235.4	11602.9	10128.5	9826.9	9579.8	9617.5	9165.1
52.5°	13433.4	12905.7	12675.3	12738.1	13228.2	12985.2	11163.1	10794.5	10396.6	10451.0	9919.0
55°	12847.0	12842.8	12943.4	13332.9	14015.7	13735.0	12147.5	11732.8	11297.2	11309.7	10786.1
57.5°	12042.8	12206.1	12725.5	13584.2	14991.7	14522.5	13115.1	12675.3	12277.3	12214.5	11770.5
60°	11309.7	11489.8	12243.8	13542.3	15331.0	15243.0	14036.6	13651.3	13328.7	13144.4	12805.1
62.5°	10195.5	10329.5	11397.7	13274.3	15046.1	15762.4	14970.7	14706.8	14463.9	14082.7	13919.3
65°	8884.4	8930.5	10057.3	12390.4	14690.1	15963.5	15900.6	15783.3	15548.8	14987.5	15021.0
67.5°	7464.4	7556.6	8545.1	10978.8	13911.0	15871.3	16621.1	16717.4	16441.0	15599.0	15724.7
70°	5952.3	6065.4	6815.2	9026.8	12587.3	15473.4	17287.1	17442.1	16910.1	15800.1	15854.6
72.5°	3681.9	3790.9	4293.5	6270.6	9977.7	14137.2	17492.4	17693.4	16922.7	15532.0	15008.4
75°	1273.4	1286.0	1679.7	3007.5	5922.9	10673.0	16822.2	17295.5	16390.7	14556.0	13060.6
77.5°	582.2	603.2	745.6	1239.9	2626.4	5759.6	13890.0	15075.4	14773.9	13031.3	10053.1
80°	402.1	410.5	515.2	741.4	1516.3	2027.4	8767.1	10312.8	10840.6	10090.8	6442.4
82.5°	301.6	310.0	397.9	502.7	1093.3	984.4	3338.5	4792.0	5956.5	5847.5	2693.4
85°	289.0	284.8	310.0	335.1	728.8	586.4	1080.7	1482.8	2324.8	1989.7	678.6
87.5°	125.7	138.2	318.3	188.5	381.2	272.3	469.1	548.7	707.9	615.8	242.9
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°	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8	3346.8
2.5°	3321.7	3330.1	3355.2	3392.9	3413.9	3455.7	3485.1	3501.8	3514.4	3518.6	3518.6
5°	3292.4	3309.1	3363.6	3426.4	3485.1	3573.0	3652.6	3698.7	3732.2	3744.8	3749.0
7.5°	3300.8	3342.7	3422.2	3514.4	3589.8	3702.9	3799.2	3891.4	3966.8	3996.1	3996.1
10°	3380.4	3439.0	3547.9	3669.4	3765.7	3883.0	3983.5	4063.1	4151.1	4201.4	4209.7
12.5°	3501.8	3573.0	3715.5	3849.5	3958.4	4050.6	4142.7	4201.4	4243.2	4280.9	4289.3
15°	3673.6	3761.5	3903.9	4042.2	4138.5	4197.2	4222.3	4222.3	4218.1	4222.3	4230.7
17.5°	3845.3	3929.1	4071.5	4209.7	4255.8	4222.3	4193.0	4184.6	4180.4	4172.0	4176.2
20°	4012.9	4092.4	4213.9	4318.6	4280.9	4163.7	4126.0	4121.8	4109.2	4100.8	4092.4
22.5°	4180.4	4239.1	4339.6	4377.3	4226.5	4058.9	4012.9	3987.7	3971.0	3950.0	3929.1
25°	4373.1	4389.8	4465.2	4406.6	4092.4	3866.2	3799.2	3761.5	3744.8	3723.8	3707.1
27.5°	4553.2	4553.2	4565.8	4360.5	3895.6	3610.7	3510.2	3443.2	3439.0	3434.8	3430.6
30°	4716.6	4695.6	4653.7	4222.3	3640.1	3296.6	3145.8	3078.8	3103.9	3124.8	3129.0
32.5°	4909.3	4867.4	4750.1	4033.8	3334.3	2944.7	2760.4	2731.1	2760.4	2785.5	2768.8
35°	5210.9	5135.5	4850.6	3816.0	3041.1	2622.2	2446.3	2404.4	2396.0	2391.8	2358.3
37.5°	5642.3	5512.4	4930.2	3581.4	2752.0	2337.3	2207.5	2119.5	2039.9	1956.2	1943.6
40°	6170.1	5948.1	4984.7	3313.3	2446.3	2098.6	1960.4	1847.3	1713.2	1566.6	1549.9
42.5°	6748.1	6417.2	5009.8	3015.9	2178.2	1901.7	1730.0	1587.6	1436.8	1323.7	1302.7
45°	7372.3	6924.1	4988.8	2731.1	1960.4	1734.2	1541.5	1386.5	1265.0	1185.4	1168.7
47.5°	7979.6	7506.3	4930.2	2504.9	1792.8	1591.7	1394.9	1252.4	1160.3	1072.3	1051.4
50°	8758.8	8063.4	4859.0	2329.0	1608.5	1449.3	1302.7	1151.9	1047.2	1005.3	996.9
52.5°	9621.6	8620.5	4775.2	2107.0	1428.4	1336.2	1244.1	1110.0	1076.5	996.9	984.4
55°	10555.7	9282.4	4758.5	1826.3	1269.2	1256.6	1185.4	1147.7	1156.1	996.9	976.0
57.5°	11540.1	9990.3	4796.2	1545.7	1139.3	1185.4	1210.6	1181.2	1168.7	1017.9	976.0
60°	12566.4	10673.0	4683.1	1286.0	1038.8	1126.8	1239.9	1164.5	1072.3	1009.5	980.2
62.5°	13563.3	11246.9	4193.0	1101.7	963.4	1110.0	1223.1	1101.7	996.9	996.9	984.4
65°	14288.0	11502.4	3279.8	967.6	913.2	1089.1	1193.8	1059.8	976.0	1005.3	988.6
67.5°	14371.7	11238.5	2203.3	862.9	871.3	1051.4	1126.8	1022.1	955.0	1030.4	1005.3
70°	13856.5	10551.6	1348.8	783.3	816.8	984.4	1068.1	984.4	925.7	1009.5	971.8
72.5°	12520.3	9269.8	950.9	716.3	758.2	921.5	1013.7	950.9	883.8	913.2	875.5
75°	10270.9	7183.8	754.0	653.5	699.5	862.9	967.6	900.6	833.6	821.0	795.9
77.5°	7275.9	4603.5	607.4	603.2	636.7	791.7	904.8	841.9	774.9	749.8	733.0
80°	4184.6	2257.8	523.6	544.5	578.1	720.5	829.4	774.9	712.1	674.4	649.3
82.5°	1600.1	787.5	460.8	473.3	511.0	645.1	754.0	707.9	645.1	678.6	569.7
85°	519.4	431.4	377.0	389.6	427.3	536.2	666.0	628.3	557.1	494.3	456.6
87.5°	230.4	234.6	201.1	222.0	268.1	356.0	485.9	460.8	406.3	339.3	326.7
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)