

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: P399874

Luminaire Tested: **ARCH-L-PA3-200-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28896 lumens
Efficiency: N/A
Efficacy: 143.8 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

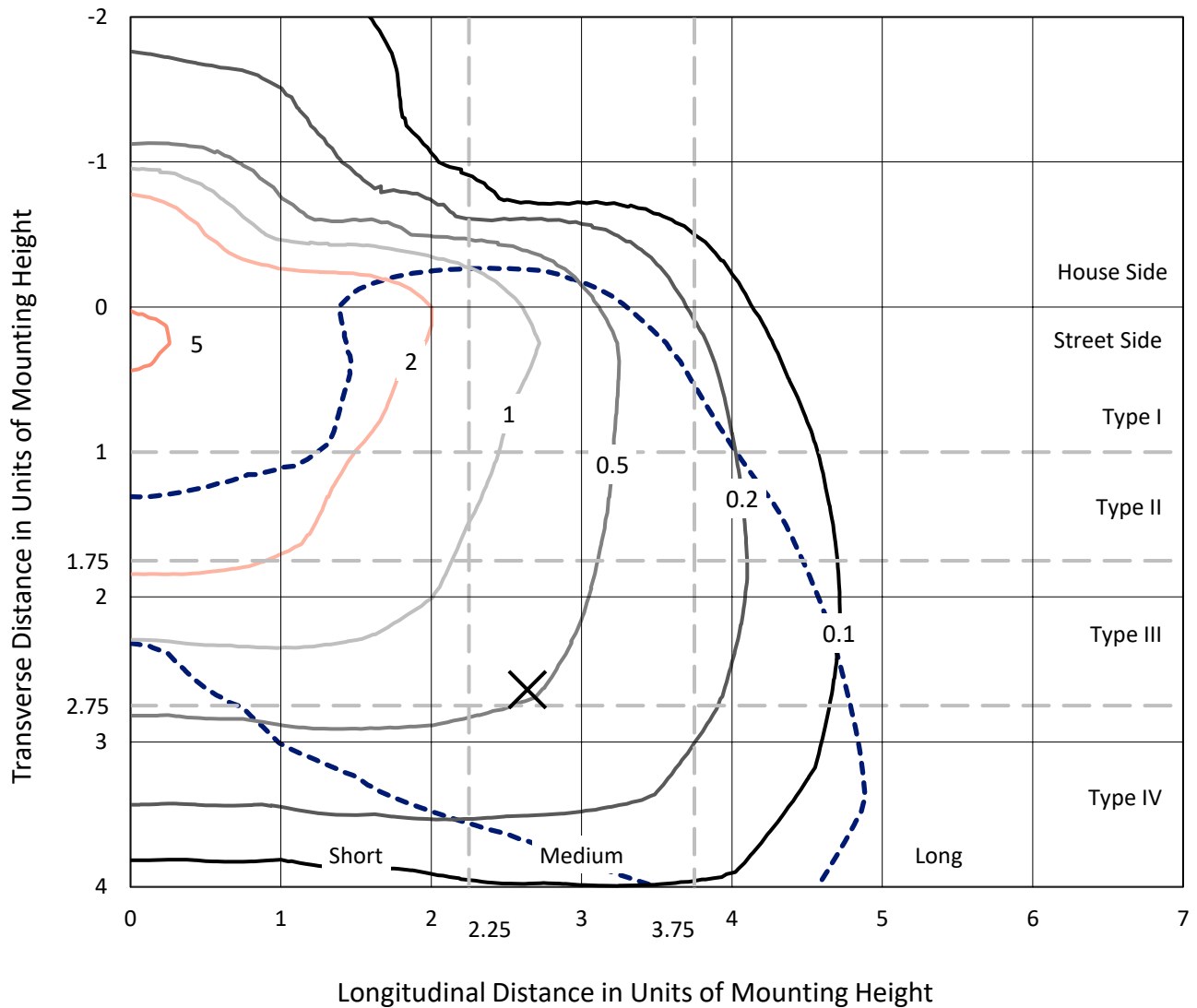
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

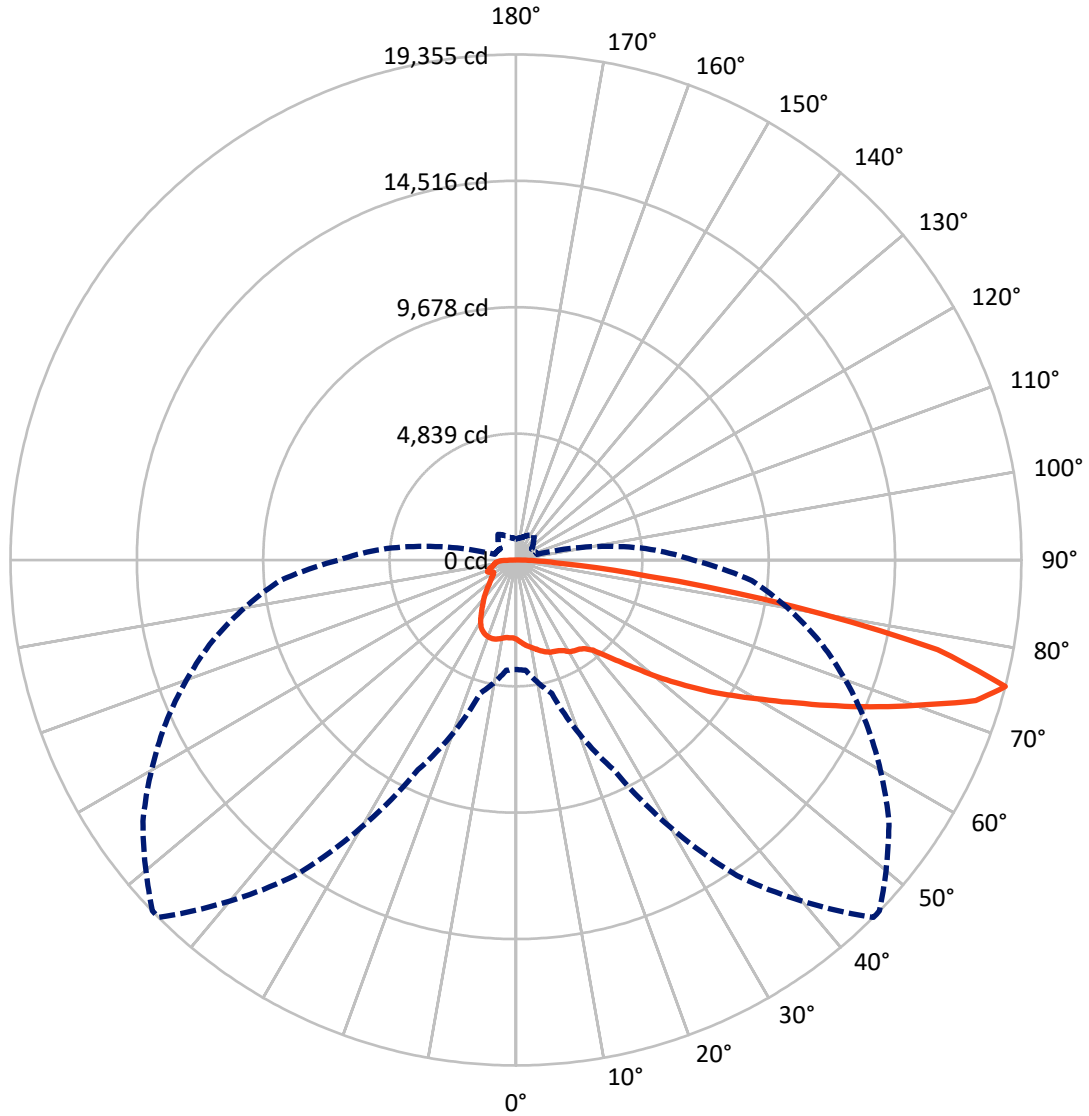
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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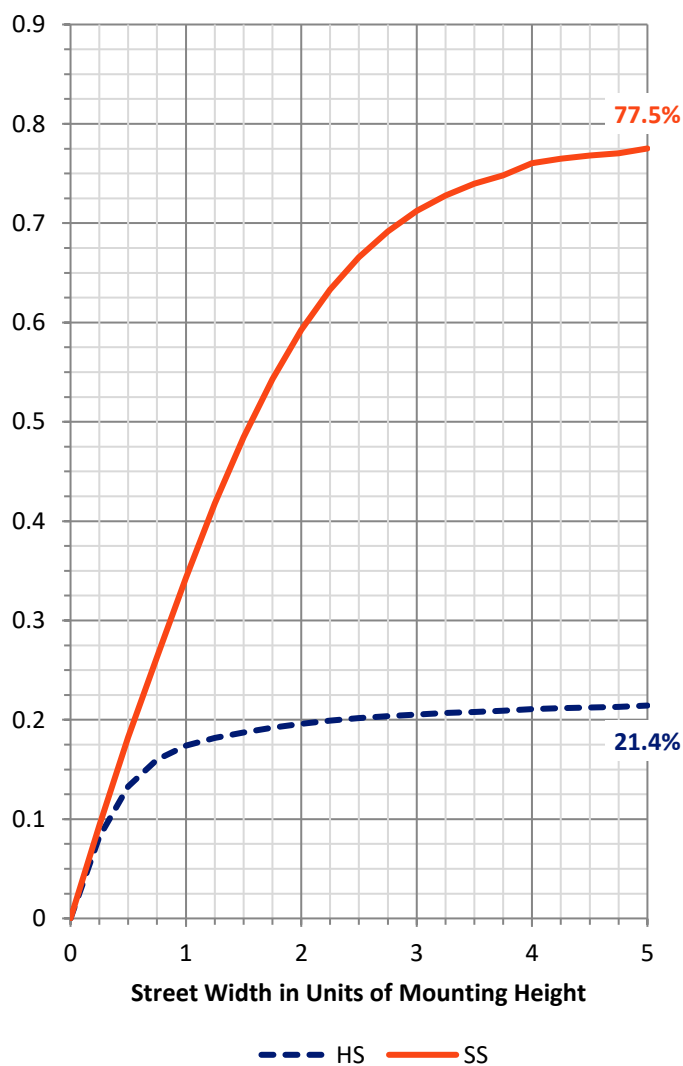
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6385.9	0.0	6385.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	22510.1	0.0	22510.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	28896.0	0.0	28896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.0
10°-20°	955.1	3.3
20°-30°	1628.3	5.6
30°-40°	2281.5	7.9
40°-50°	3351.8	11.6
50°-60°	5334.5	18.5
60°-70°	7588.3	26.3
70°-80°	6353.7	22.0
80°-90°	1102.7	3.8
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°	28896.0	100.0
0°-180°	28896.0	100.0

Coefficient of Utilization

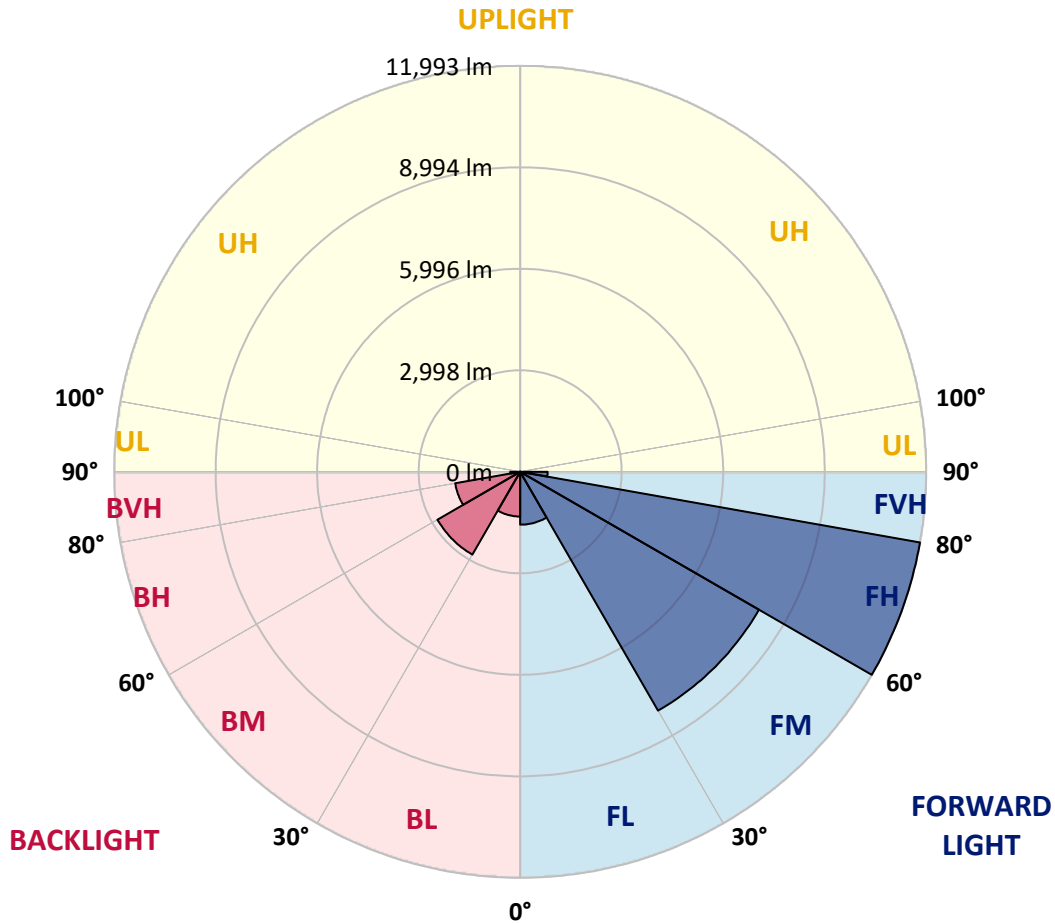


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.0	5.4			
FM (30°-60°)	8144.9	28.2			
FH (60°-80°)	11992.6	41.5			G4/12000
FVH (80°-90°)	810.7	2.8			G5
BL (0°-30°)	1321.6	4.6	B3/2500		
BM (30°-60°)	2822.9	9.8	B3/5000		
BH (60°-80°)	1949.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	292.0	1.0			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°	46°	55°	65°	75°	85°
0°	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7
2.5°	3208.5	3193.0	3185.3	3185.3	3154.4	3135.1	3131.2	3104.2	3081.0	3057.9	3038.6
5°	3393.8	3382.2	3359.0	3339.7	3297.3	3243.2	3235.5	3177.6	3119.7	3065.6	3019.3
7.5°	3563.7	3540.5	3513.5	3474.9	3405.4	3332.0	3320.4	3239.3	3158.3	3077.2	3015.4
10°	3706.5	3683.4	3644.7	3590.7	3501.9	3413.1	3401.5	3316.6	3231.6	3135.1	3046.3
12.5°	3841.7	3822.3	3764.4	3691.1	3586.8	3505.7	3494.2	3420.8	3332.0	3223.9	3108.1
15°	3957.5	3938.2	3876.4	3791.5	3671.8	3610.0	3594.6	3525.1	3436.3	3320.4	3200.7
17.5°	4015.4	4015.4	3949.8	3857.1	3745.1	3698.8	3687.2	3602.3	3521.2	3409.2	3289.5
20°	4034.7	4042.4	3996.1	3884.1	3787.6	3768.3	3756.7	3687.2	3594.6	3486.4	3374.5
22.5°	4046.3	4061.7	4023.1	3895.7	3814.6	3803.0	3795.3	3749.0	3675.6	3571.4	3459.4
25°	4084.9	4084.9	4057.9	3915.0	3849.4	3845.5	3845.5	3818.5	3768.3	3679.5	3567.5
27.5°	4142.8	4138.9	4104.2	3957.5	3926.6	3938.2	3934.3	3930.5	3895.7	3806.9	3687.2
30°	4239.3	4239.3	4200.7	4042.4	4023.1	4073.3	4077.2	4084.9	4030.8	3891.8	3795.3
32.5°	4386.0	4370.6	4332.0	4127.4	4096.5	4142.8	4150.5	4146.7	4100.3	3969.1	3922.7
35°	4837.8	4803.0	4664.0	4316.6	4162.1	4189.1	4193.0	4212.3	4220.0	4115.8	4092.6
37.5°	5629.3	5582.9	5370.6	4764.4	4370.6	4305.0	4301.1	4351.3	4393.8	4301.1	4301.1
40°	6490.3	6451.7	6328.1	5536.6	4756.7	4540.5	4525.0	4571.4	4625.4	4559.8	4579.1
42.5°	7231.6	7262.5	7274.0	6355.1	5335.8	4980.6	4938.2	4872.5	4957.5	4899.6	4976.8
45°	7787.6	7772.1	7984.5	7193.0	6084.9	5532.8	5474.8	5297.2	5405.3	5401.5	5571.4
47.5°	8378.3	8351.3	8440.1	7980.6	6938.1	6208.4	6119.6	5857.1	6019.2	6131.2	6413.0
50°	8938.1	8945.8	8976.7	8602.2	7864.8	7030.8	6918.8	6567.5	6799.1	7034.7	7432.3
52.5°	9667.8	9613.8	9575.2	9328.1	8903.4	7887.9	7814.6	7413.0	7737.4	8015.3	8544.3
55°	10304.9	10270.1	10247.0	10235.4	9772.1	8833.9	8756.7	8339.7	8806.8	9003.8	9783.7
57.5°	10984.4	10965.1	11088.7	11285.6	11100.3	9795.2	9714.2	9312.6	9833.9	9972.9	11127.3
60°	11482.5	11494.1	11833.8	12335.8	12208.3	10837.7	10741.2	10386.0	10833.8	10957.4	12470.9
62.5°	11486.3	11602.2	12389.8	13289.4	13436.1	12038.5	11926.5	11540.4	11860.9	11860.9	13675.5
65°	10389.8	10521.1	12289.4	13524.9	14679.4	13467.0	13358.9	12752.7	12872.4	12710.3	14806.8
67.5°	9297.2	9451.6	11115.7	13544.2	15551.9	14996.0	14868.5	13965.1	13760.5	13351.2	15598.3
70°	8571.3	8679.4	10069.4	13293.3	16077.0	16594.4	16497.9	15115.6	14459.3	13887.9	15432.2
72.5°	7216.1	7177.5	8505.7	12100.2	16370.5	18409.0	18328.0	16366.6	15065.5	13633.0	13162.0
75°	4189.1	4235.5	5277.9	8864.8	14756.6	19355.0	19347.3	17436.1	14799.0	12042.3	9069.4
77.5°	1208.5	1243.2	1733.6	3895.7	9331.9	16509.5	17038.4	15945.8	12509.5	8582.9	4702.6
80°	529.0	556.0	752.9	1297.3	4019.3	10783.7	11247.0	10783.7	7544.3	3938.2	1845.5
82.5°	312.7	332.0	490.3	803.1	1926.6	5131.2	5756.7	5027.0	3254.8	1671.8	764.5
85°	177.6	185.3	281.8	509.6	1212.3	1795.3	2015.4	1888.0	1586.9	949.8	401.5
87.5°	81.1	84.9	139.0	239.4	679.5	606.2	629.3	834.0	918.9	579.1	200.8
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°	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7	3034.7
2.5°	3030.9	3019.3	2996.1	2988.4	2976.8	2980.7	2984.5	2984.5	2988.4	2976.8	2976.8
5°	3000.0	2980.7	2957.5	2957.5	2957.5	2988.4	3015.4	3030.9	3038.6	3038.6	3030.9
7.5°	2988.4	2965.2	2938.2	2945.9	2953.6	2992.2	3042.4	3092.6	3108.1	3108.1	3100.3
10°	3011.5	2988.4	2969.1	2980.7	3000.0	3030.9	3069.5	3115.8	3154.4	3158.3	3154.4
12.5°	3065.6	3038.6	3019.3	3042.4	3065.6	3084.9	3104.2	3123.5	3173.7	3181.4	3181.4
15°	3154.4	3127.4	3104.2	3123.5	3131.2	3131.2	3131.2	3131.2	3181.4	3189.2	3189.2
17.5°	3243.2	3220.0	3196.9	3200.7	3177.6	3146.7	3135.1	3131.2	3158.3	3181.4	3185.3
20°	3328.1	3308.8	3285.7	3247.1	3189.2	3131.2	3111.9	3111.9	3127.4	3162.1	3162.1
22.5°	3420.8	3397.6	3359.0	3270.2	3173.7	3092.6	3073.3	3084.9	3104.2	3150.5	3146.7
25°	3525.1	3494.2	3428.5	3262.5	3123.5	3027.0	3030.9	3065.6	3100.3	3150.5	3150.5
27.5°	3640.9	3598.4	3467.1	3200.7	3011.5	2918.9	2953.6	3034.7	3084.9	3139.0	3146.7
30°	3768.3	3729.7	3498.0	3092.6	2830.1	2745.1	2830.1	2961.4	3038.6	3088.8	3100.3
32.5°	3922.7	3891.8	3525.1	2953.6	2594.6	2521.2	2644.8	2806.9	2930.5	2988.4	3000.0
35°	4115.8	4084.9	3559.8	2795.3	2374.5	2297.3	2409.2	2575.3	2737.4	2810.8	2833.9
37.5°	4366.7	4320.4	3590.7	2625.5	2189.2	2100.4	2154.4	2305.0	2451.7	2552.1	2579.1
40°	4687.2	4613.8	3617.7	2432.4	2027.0	1926.6	1945.9	2019.3	2104.2	2193.0	2227.8
42.5°	5138.9	4992.2	3621.6	2227.8	1861.0	1768.3	1760.6	1783.8	1783.8	1783.8	1795.3
45°	5768.3	5490.3	3629.3	2034.7	1691.1	1594.6	1571.4	1563.7	1505.8	1393.8	1386.1
47.5°	6563.6	6142.8	3664.0	1872.6	1513.5	1428.6	1397.7	1366.8	1258.7	1142.8	1119.7
50°	7582.9	6899.5	3733.5	1718.1	1362.9	1305.0	1266.4	1193.0	1073.3	984.5	961.4
52.5°	8756.7	7799.1	3799.2	1556.0	1251.0	1212.3	1166.0	1077.2	949.8	895.7	888.0
55°	10104.1	8803.0	3930.5	1413.1	1154.4	1127.4	1084.9	1000.0	903.5	864.9	861.0
57.5°	11482.5	9926.5	4115.8	1285.7	1061.8	1046.3	1046.3	973.0	911.2	895.7	895.7
60°	12810.7	10891.8	3972.9	1166.0	976.8	984.5	1057.9	1038.6	992.3	1011.6	1023.2
62.5°	13841.5	11459.3	3223.9	1069.5	915.0	984.5	1173.7	1173.7	1119.7	1112.0	1112.0
65°	14281.7	11451.6	2266.4	996.1	891.9	1081.1	1308.9	1247.1	1104.2	1050.2	1038.6
67.5°	14169.7	10949.7	1563.7	945.9	884.2	1181.5	1370.6	1196.9	1034.7	988.4	953.7
70°	13185.2	9887.9	1204.6	899.6	872.6	1139.0	1351.3	1139.0	980.7	938.2	907.3
72.5°	10636.9	7930.4	1000.0	853.3	826.2	1054.0	1285.7	1084.9	938.2	891.9	861.0
75°	6783.7	4988.4	845.5	791.5	737.4	945.9	1196.9	1030.9	891.9	830.1	806.9
77.5°	3262.5	2150.6	737.4	718.1	664.1	876.4	1108.1	961.4	830.1	779.9	764.5
80°	1320.4	984.5	640.9	644.8	610.0	834.0	1046.3	895.7	768.3	714.3	687.3
82.5°	687.3	571.4	540.5	556.0	556.0	795.4	1000.0	841.7	714.3	691.1	602.3
85°	370.7	355.2	417.0	447.9	482.6	718.1	930.5	783.8	652.5	559.8	540.5
87.5°	181.5	231.7	235.5	270.3	335.9	575.3	783.8	656.4	544.4	451.7	444.0
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)