

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: P639163

Luminaire Tested: **USSL-M-PA6A-730-U-T3-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6A-730-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27466 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

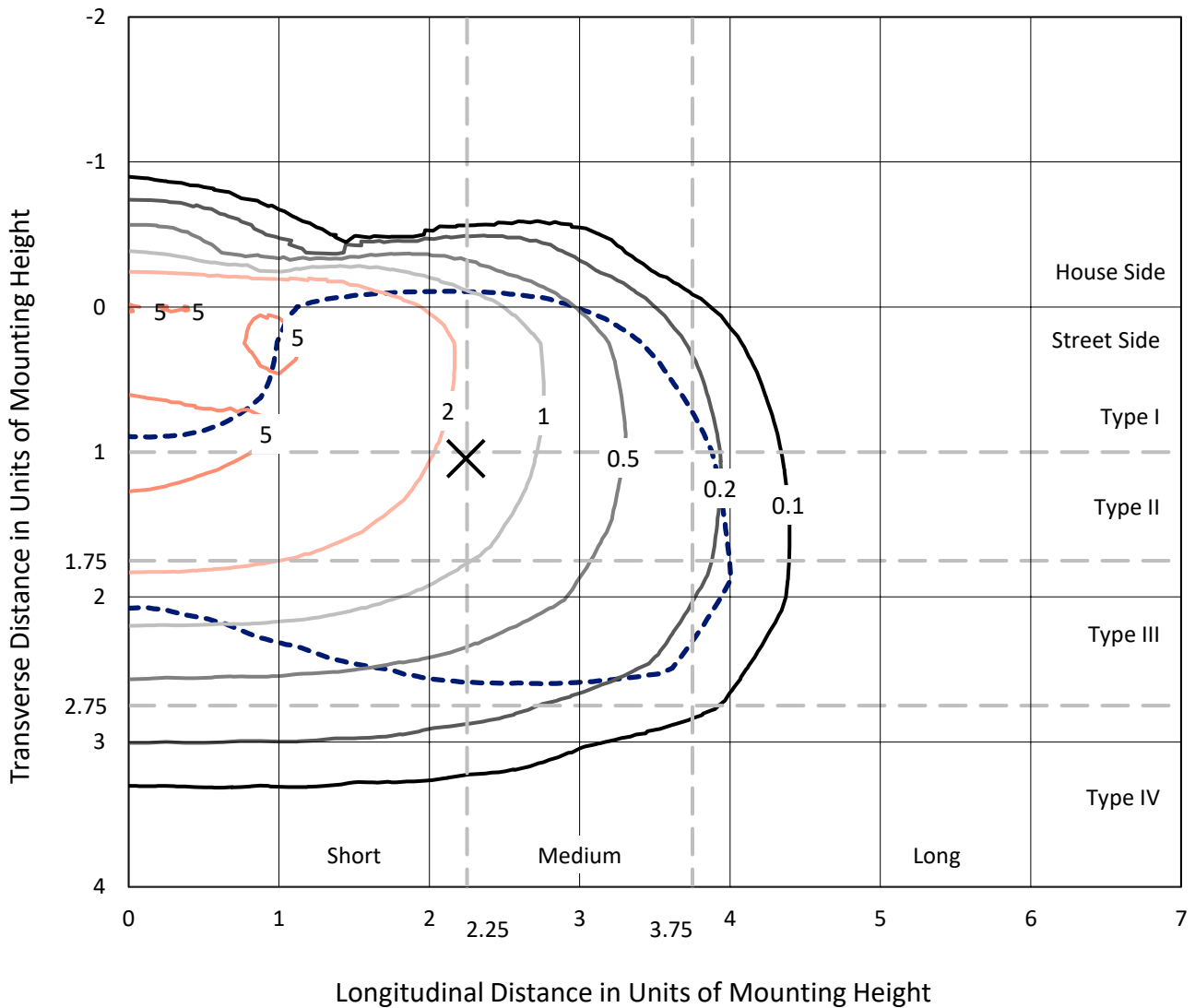
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

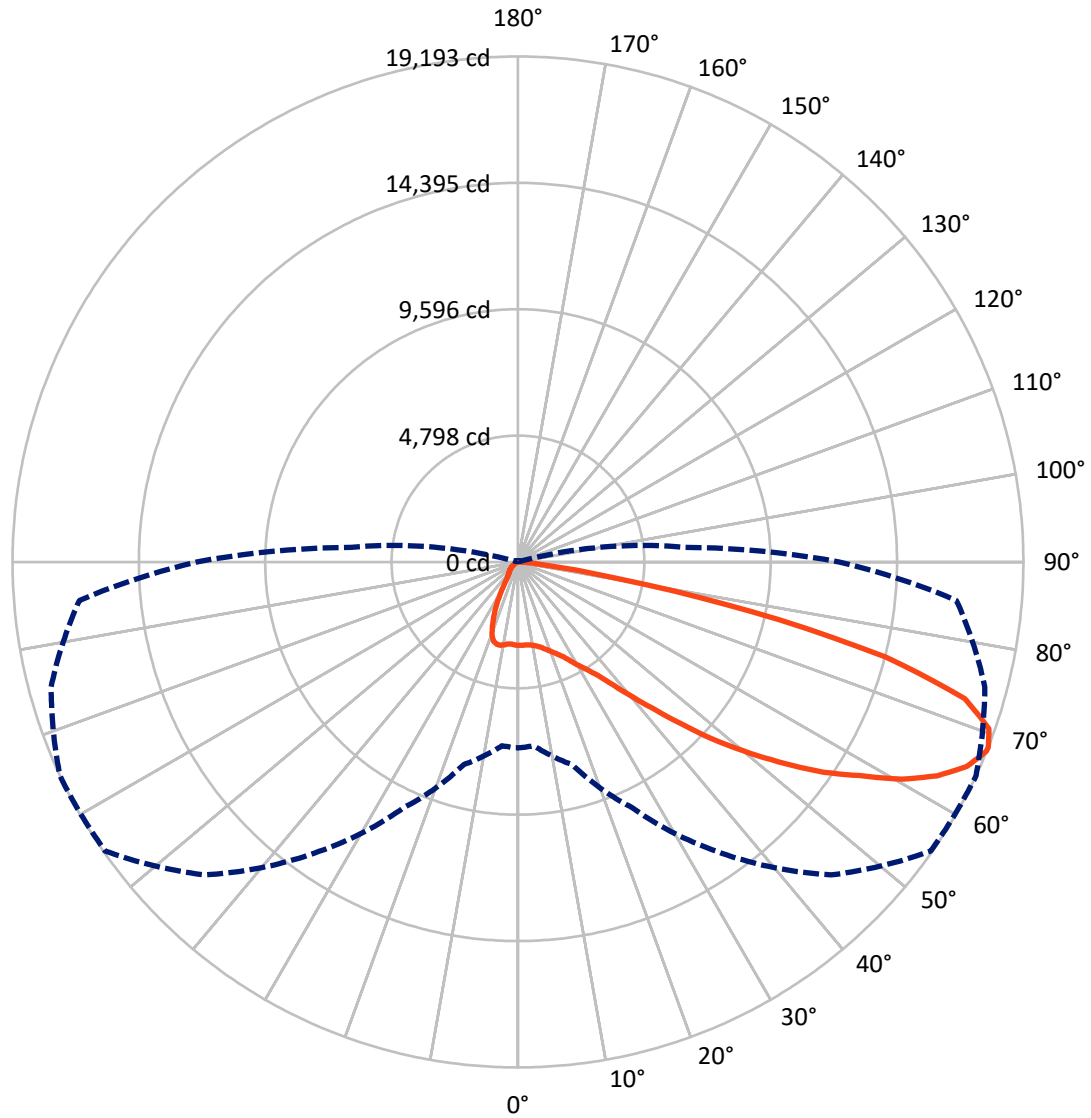
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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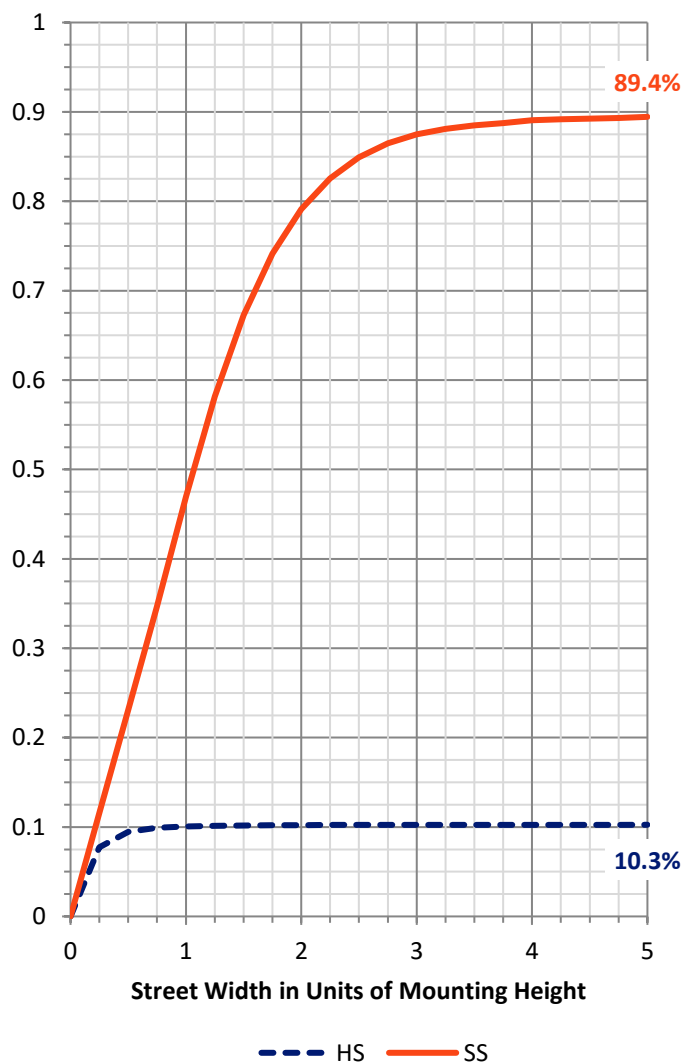
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2841.7	0.0	2841.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24624.3	0.0	24624.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	27466.0	0.0	27466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.1
10°-20°	775.3	2.8
20°-30°	1227.3	4.5
30°-40°	2142.7	7.8
40°-50°	4157.3	15.1
50°-60°	6737.5	24.5
60°-70°	7831.5	28.5
70°-80°	4065.9	14.8
80°-90°	233.7	0.9
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°	27466.0	100.0
0°-180°	27466.0	100.0

Coefficient of Utilization



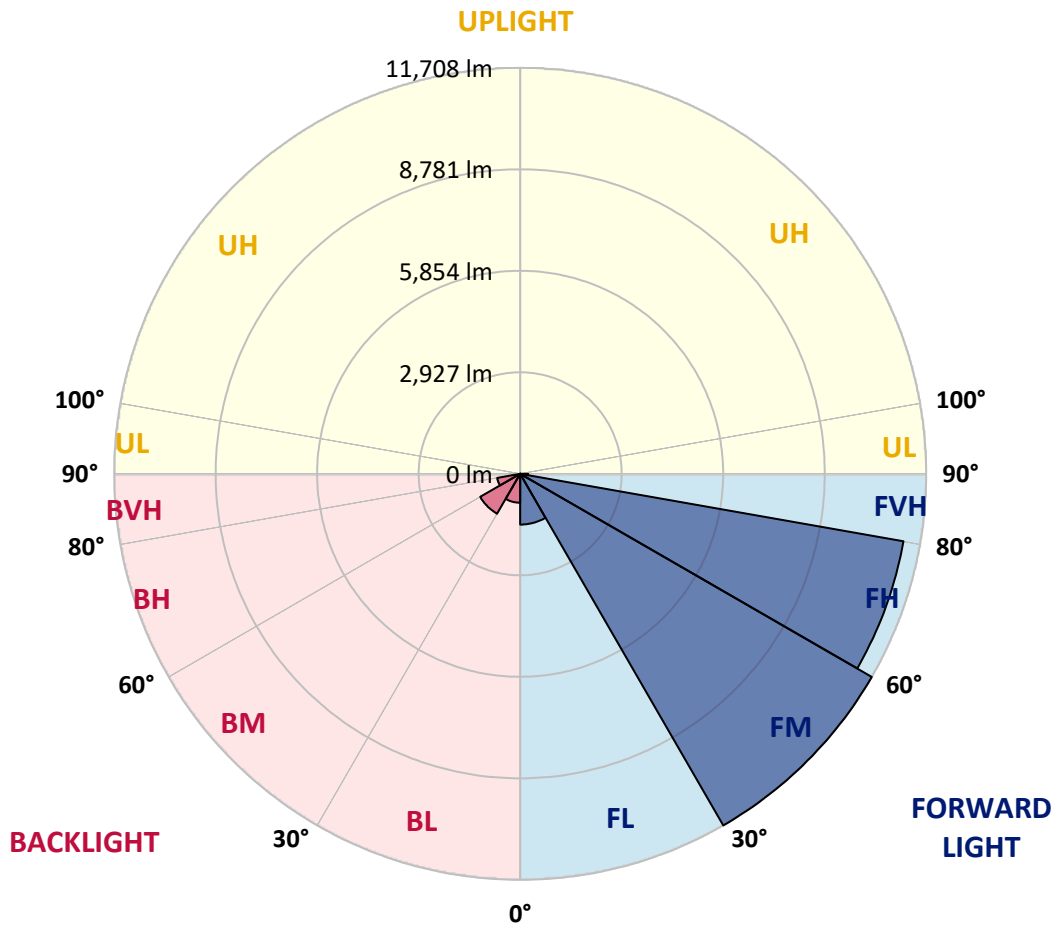
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.4	5.3			
FM (30°-60°)	11708.2	42.6			
FH (60°-80°)	11224.0	40.9			G4/12000
FVH (80°-90°)	228.7	0.8			G3/500
BL (0°-30°)	834.1	3.0	B2/1000		
BM (30°-60°)	1329.3	4.8	B2/2500		
BH (60°-80°)	673.4	2.5	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3203.8	3176.5	3178.3	3175.6	3165.6	3172.9	3168.3	3166.5	3159.2	3156.5	3155.6
5°	3149.2	3123.7	3131.9	3139.2	3139.2	3157.4	3161.0	3162.8	3154.6	3150.1	3144.6
7.5°	3063.6	3042.6	3056.3	3081.8	3100.0	3141.0	3162.8	3179.2	3177.4	3178.3	3172.0
10°	2992.5	2972.5	2998.9	3037.2	3074.5	3134.6	3177.4	3218.4	3242.1	3258.5	3256.6
12.5°	2968.9	2951.6	2976.2	3021.7	3070.0	3140.1	3204.7	3279.4	3335.9	3368.7	3364.1
15°	2972.5	2954.3	2978.9	3028.1	3080.9	3162.8	3257.6	3373.2	3457.0	3487.1	3492.5
17.5°	3001.7	2979.8	2998.9	3044.5	3107.3	3212.0	3345.0	3489.8	3595.4	3635.5	3634.6
20°	3040.8	3016.2	3033.5	3074.5	3148.3	3288.5	3456.1	3630.9	3754.8	3794.9	3789.4
22.5°	3099.1	3071.8	3084.5	3124.6	3219.3	3396.9	3587.2	3789.4	3926.0	3965.2	3948.8
25°	3258.5	3215.7	3190.2	3196.5	3310.4	3530.8	3767.5	3981.6	4124.5	4139.1	4113.6
27.5°	3665.5	3634.6	3506.2	3381.4	3421.5	3675.6	3998.9	4250.2	4379.5	4356.8	4322.2
30°	4504.3	4386.8	4184.6	3861.3	3671.0	3830.4	4222.0	4564.4	4681.9	4629.1	4562.6
32.5°	5506.1	5367.6	5070.8	4602.7	4177.4	4093.6	4488.8	4897.7	5034.3	4932.3	4864.9
35°	6493.3	6440.4	6131.7	5562.5	4940.5	4569.0	4848.5	5330.3	5520.6	5428.7	5358.5
37.5°	7616.1	7492.3	7229.1	6570.7	5868.5	5257.4	5341.2	5971.4	6234.6	6101.7	5991.5
40°	8743.6	8607.9	8343.8	7609.8	6934.9	6226.4	6053.4	6770.1	7130.7	6960.4	6776.5
42.5°	9857.4	9841.9	9504.9	8828.3	8061.5	7430.4	7070.6	7695.4	8145.3	7951.3	7644.4
45°	11295.4	11152.4	10727.1	10119.6	9468.5	8792.8	8340.1	8852.9	9392.9	8988.6	8499.5
47.5°	12180.6	12098.6	11757.1	11377.3	11000.3	10366.4	9749.9	10129.7	10588.7	10057.7	9351.9
50°	12934.6	12837.2	12594.9	12463.8	12445.6	12078.6	11268.0	11401.9	11789.9	11173.3	10170.6
52.5°	13402.7	13311.6	13155.9	13341.7	13775.2	13867.2	12750.6	12720.6	13103.1	12286.2	10948.4
55°	13413.6	13205.1	13328.0	13867.2	14868.9	15259.6	14276.1	14092.1	14233.3	13469.2	11676.0
57.5°	12945.5	12871.8	13235.1	14102.1	15577.4	16293.3	15694.9	15305.1	15413.5	14623.0	12308.0
60°	11988.4	11998.4	12797.1	14018.3	16003.7	17116.5	17014.5	16745.9	16596.5	15698.6	12798.0
62.5°	10644.2	10712.5	11736.1	13511.1	15913.5	17544.5	18162.9	17874.2	17512.7	16596.5	13073.0
65°	9143.4	9115.2	10215.3	12438.3	15101.2	17549.1	18934.3	18725.7	18203.0	17068.3	12994.7
67.5°	7427.6	7368.4	8367.5	10722.5	13827.1	16979.0	19137.4	19184.7	18390.6	16866.1	12408.2
68°	7058.8	7006.0	7964.0	10301.8	13500.2	16801.4	19131.0	19192.9	18353.2	16714.0	12212.4
70°	5518.8	5465.1	6247.4	8342.0	11850.0	15730.4	18829.5	18971.6	17868.8	15684.0	11094.1
72.5°	3098.2	3195.6	3897.8	5650.0	8840.1	13489.2	17603.7	17745.8	16108.4	12582.2	8348.3
75°	997.2	986.3	1587.3	2721.2	5043.4	9126.1	14420.0	14428.1	12097.7	7620.7	4612.7
77.5°	524.6	529.1	639.3	1107.4	2048.2	4013.4	8829.2	9078.7	6265.6	2892.4	1575.5
80°	326.9	332.4	396.2	638.4	1115.6	1365.1	3859.5	3870.5	1809.6	657.5	376.1
82.5°	220.4	224.0	276.9	414.4	742.2	558.3	1176.6	1163.9	512.7	207.6	125.7
85°	104.7	106.6	178.5	284.1	363.4	231.3	339.7	359.7	254.1	98.4	53.7
87.5°	21.9	24.6	90.2	123.9	109.3	45.5	95.6	76.5	103.8	40.1	24.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3159.2	3161.9	3153.7	3139.2	3137.3	3133.7	3140.1	3138.3	3140.1	3119.1
5°	3146.5	3142.8	3127.3	3110.0	3106.4	3100.0	3102.7	3095.5	3096.4	3069.0
7.5°	3173.8	3162.8	3135.5	3100.0	3056.3	3001.7	2960.7	2917.0	2913.3	2880.5
10°	3259.4	3242.1	3192.9	3084.5	2944.3	2753.9	2578.2	2416.1	2373.3	2309.5
12.5°	3363.2	3337.7	3231.1	3008.0	2665.6	2270.4	1923.4	1745.8	1669.3	1632.9
15°	3485.2	3435.1	3223.9	2778.5	2156.5	1632.9	1315.0	1126.5	1081.9	1050.9
17.5°	3628.2	3528.0	3149.2	2340.5	1622.9	1140.2	927.1	872.4	866.1	865.2
20°	3775.7	3600.0	2940.6	1865.1	1157.5	872.4	830.6	811.4	803.2	800.5
22.5°	3922.4	3640.0	2577.3	1413.4	871.5	806.0	775.9	748.6	735.8	725.8
25°	4082.6	3634.6	2150.2	1021.8	793.2	753.1	710.3	672.1	653.9	641.1
27.5°	4274.8	3545.3	1711.2	807.8	736.8	686.7	632.0	584.7	558.3	551.9
30°	4497.0	3335.0	1290.5	714.9	664.8	612.0	541.9	480.8	454.4	449.0
32.5°	4773.9	3040.8	913.4	636.6	581.0	523.6	444.4	379.8	352.4	340.6
35°	5160.9	2697.5	697.6	562.8	497.2	427.1	345.2	296.0	272.3	267.7
37.5°	5630.8	2341.4	595.6	497.2	422.6	337.9	265.0	230.4	214.9	212.2
40°	6168.1	1980.8	531.8	436.2	352.4	262.3	205.8	178.5	172.1	171.2
42.5°	6694.5	1583.7	482.7	380.7	286.0	203.1	157.6	142.1	140.2	141.2
45°	7130.7	1171.2	434.4	329.7	226.8	156.6	124.8	114.7	117.5	119.3
47.5°	7478.6	817.8	388.0	276.9	177.6	126.6	102.9	96.5	101.1	102.9
50°	7738.2	608.3	343.3	225.9	143.0	105.6	87.4	82.0	89.2	91.1
52.5°	7903.0	502.7	293.2	181.2	119.3	91.1	73.8	69.2	78.3	81.1
55°	7991.4	435.3	248.6	148.4	102.9	78.3	61.9	59.2	69.2	71.9
57.5°	7975.0	377.9	207.6	124.8	92.0	69.2	51.9	50.1	61.0	64.7
60°	7826.5	324.2	170.3	104.7	82.0	61.0	44.6	42.8	54.6	57.4
62.5°	7563.3	267.7	137.5	89.2	73.8	54.6	38.2	36.4	46.4	49.2
65°	7118.9	207.6	107.5	77.4	66.5	48.3	32.8	28.2	37.3	39.2
67.5°	6510.6	159.4	86.5	66.5	60.1	43.7	27.3	21.9	28.2	30.1
68°	6360.3	151.2	82.9	63.7	58.3	42.8	26.4	20.9	27.3	28.2
70°	5602.6	124.8	70.1	55.6	52.8	38.2	22.8	16.4	20.9	21.9
72.5°	3830.4	99.3	57.4	46.4	43.7	32.8	18.2	11.8	15.5	15.5
75°	1261.3	75.6	44.6	33.7	31.9	24.6	12.7	8.2	10.0	10.0
77.5°	276.9	50.1	29.1	20.9	19.1	15.5	8.2	3.6	5.5	5.5
80°	87.4	25.5	16.4	11.8	10.9	8.2	4.6	0.9	0.9	1.8
82.5°	33.7	12.7	11.8	9.1	7.3	5.5	2.7	0.0	0.0	0.0
85°	17.3	9.1	9.1	7.3	5.5	3.6	1.8	0.0	0.0	0.0
87.5°	10.0	8.2	8.2	6.4	4.6	1.8	0.0	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

(END OF REPORT)