

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: P639321

Luminaire Tested: **USSL-M-PA6C-730-U-T2R-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6C-730-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44552 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

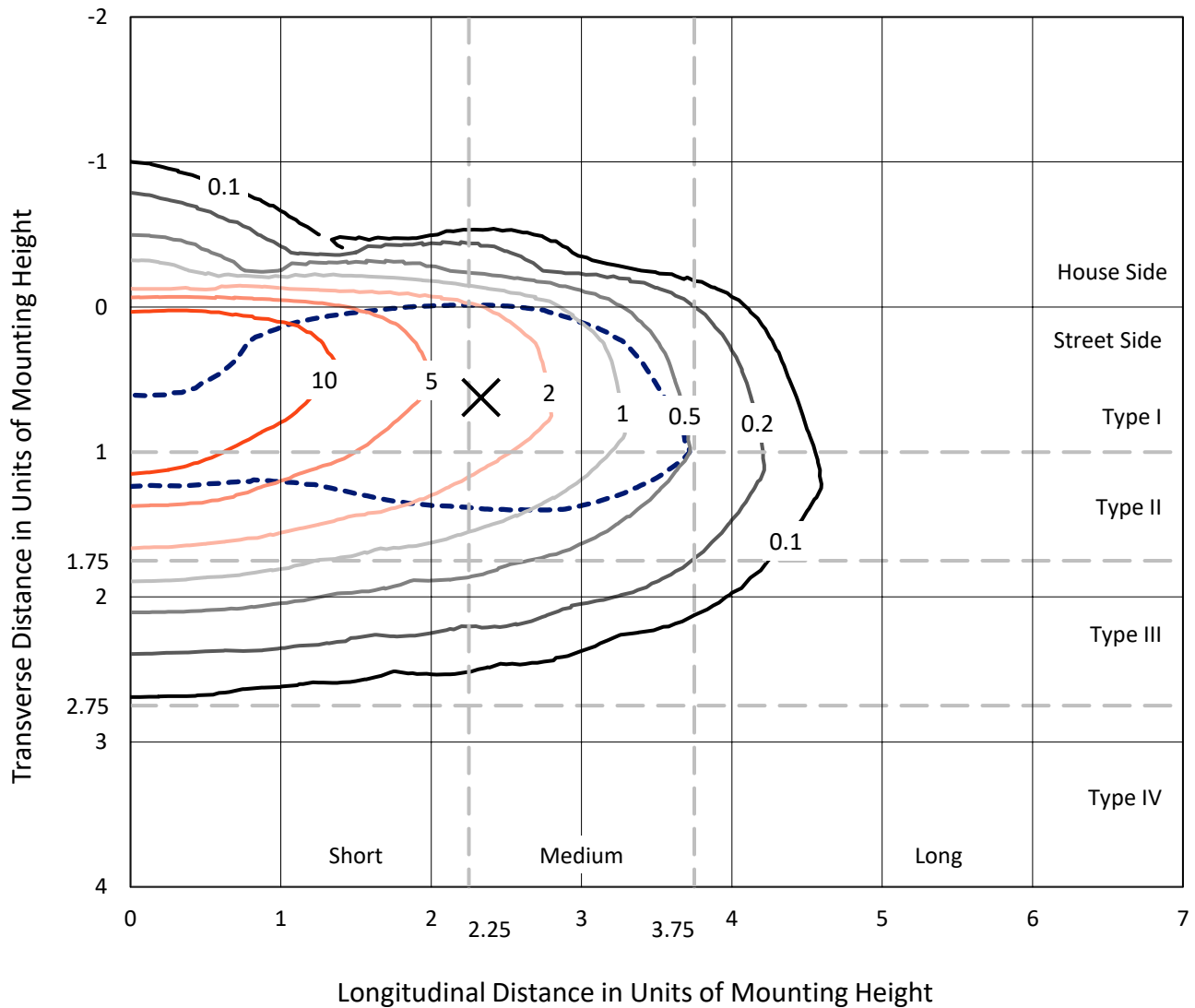
Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

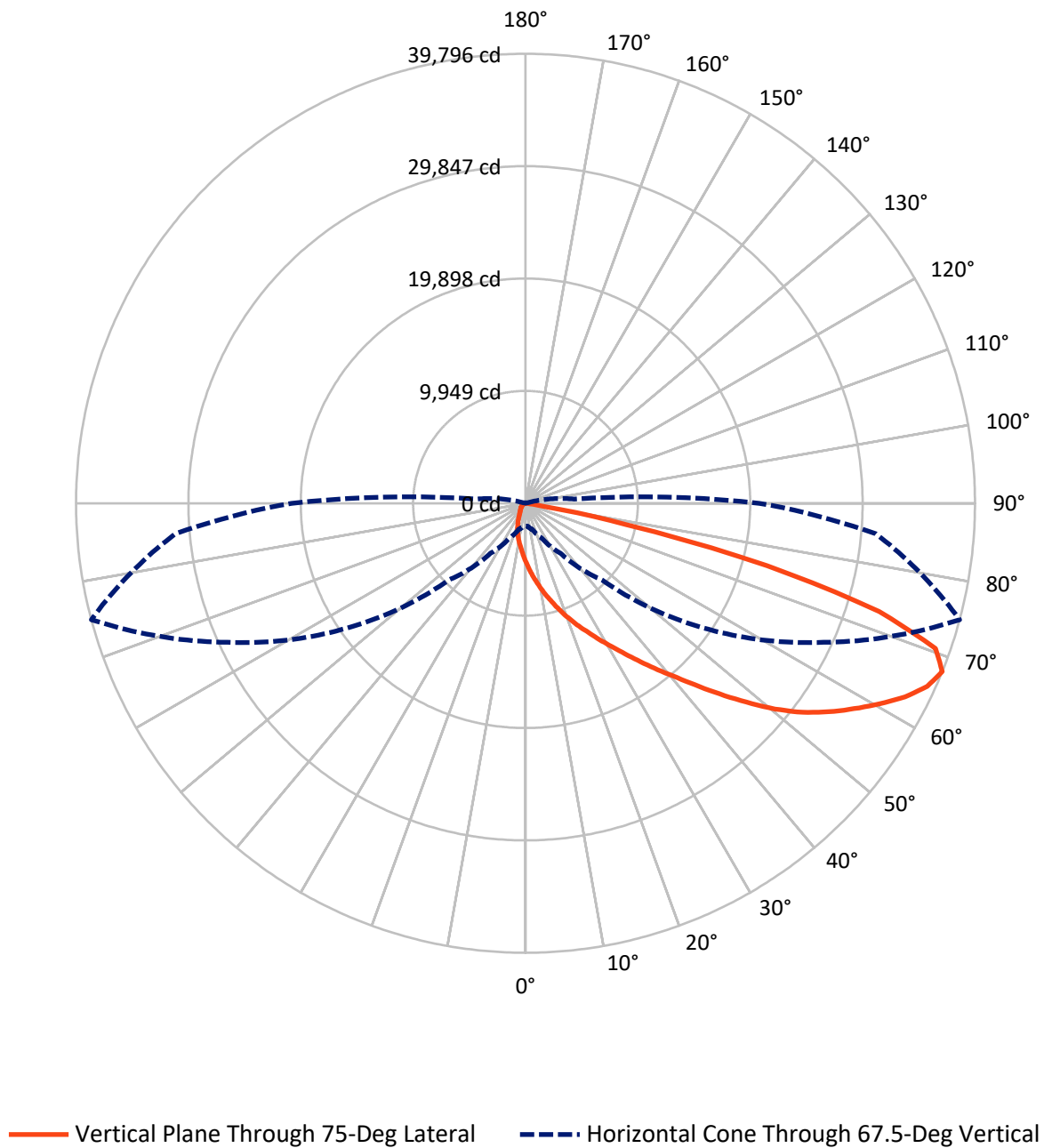


Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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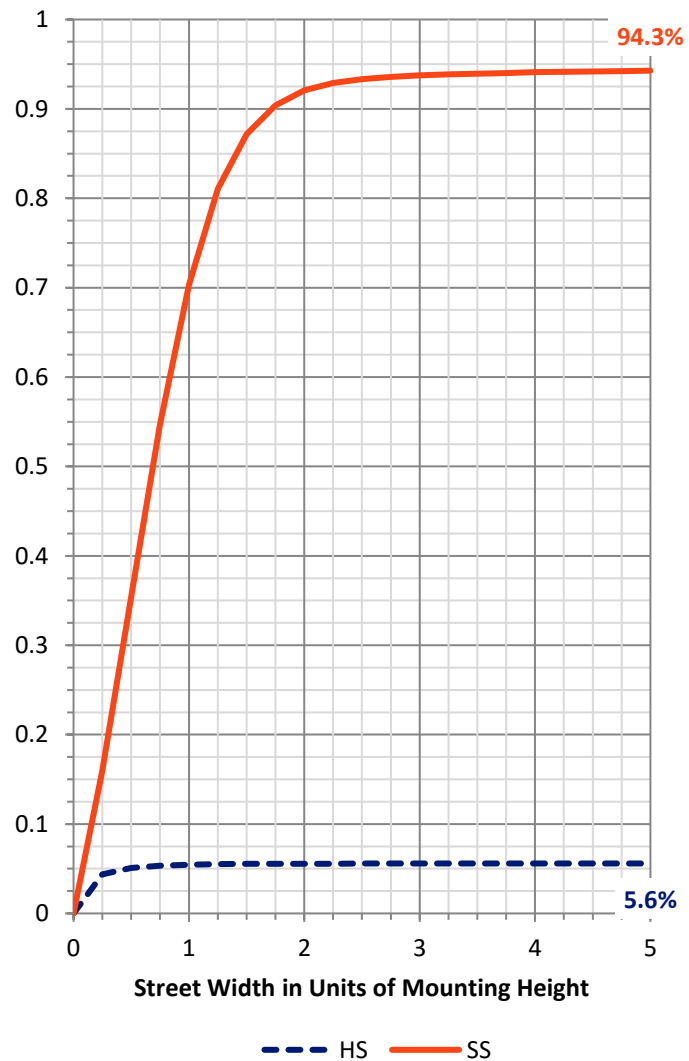
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2505.3	0.0	2505.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	42046.7	0.0	42046.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	44552.0	0.0	44552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.1
10°-20°	1719.1	3.9
20°-30°	3419.1	7.7
30°-40°	6198.8	13.9
40°-50°	9280.6	20.8
50°-60°	10576.8	23.7
60°-70°	8984.7	20.2
70°-80°	3706.9	8.3
80°-90°	156.4	0.4
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°	44552.0	100.0
0°-180°	44552.0	100.0

Coefficient of Utilization



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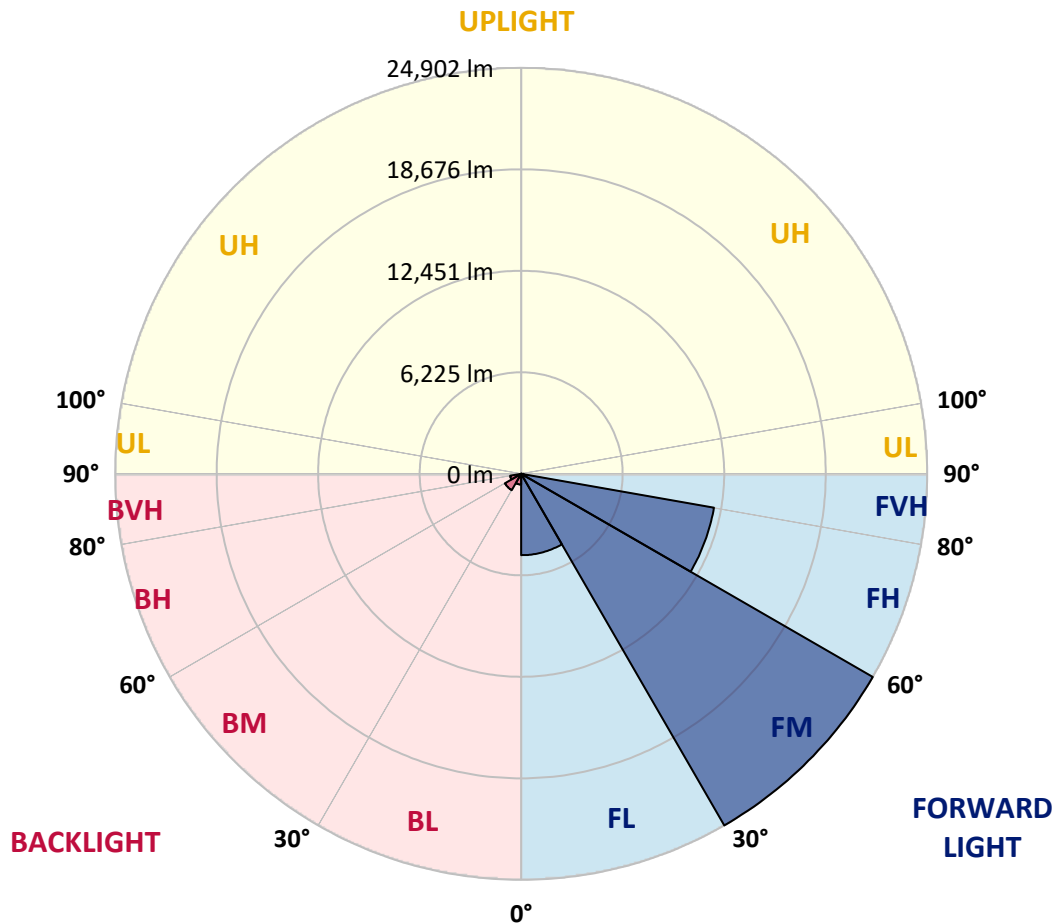
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4990.7	11.2			
FM	(30°-60°)	24901.8	55.9			
FH	(60°-80°)	12005.4	26.9			G5
FVH	(80°-90°)	148.7	0.3			G2/225
BL	(0°-30°)	657.1	1.5	B2/1000		
BM	(30°-60°)	1154.3	2.6	B2/2500		
BH	(60°-80°)	686.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	7.7	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4
2.5°	7201.6	7114.9	7179.9	7104.0	6922.4	6696.1	6442.7	6122.9	5771.9	5420.9	5243.3
5°	8693.7	8516.2	8528.4	8432.2	8228.9	7925.3	7552.6	7010.5	6384.4	5682.4	5319.2
7.5°	9481.1	9329.3	9342.9	9273.7	9130.1	8876.7	8508.0	7865.7	7032.2	6007.7	5454.7
10°	10097.7	10002.9	10032.7	9992.0	9887.7	9684.4	9359.1	8711.3	7718.0	6398.0	5643.1
12.5°	10729.2	10627.6	10684.5	10668.3	10604.6	10462.3	10134.3	9544.8	8429.4	6827.6	5855.9
15°	11104.6	10978.6	11096.5	11215.8	11293.0	11242.9	10994.9	10379.6	9196.5	7282.9	6082.2
17.5°	11279.5	11175.1	11339.1	11543.7	11808.0	11950.3	11787.7	11256.4	10004.2	7785.7	6350.5
20°	11682.0	11587.1	11736.2	11951.7	12237.6	12531.7	12575.1	12160.4	10833.6	8327.8	6640.6
22.5°	12618.4	12510.0	12575.1	12613.0	12806.8	13086.0	13275.7	13077.8	11688.7	8901.1	6946.8
25°	14239.3	14083.4	14004.8	13736.5	13717.5	13798.8	13919.4	14002.1	12552.0	9494.6	7249.1
27.5°	16451.0	16246.3	15971.2	15303.1	14967.0	14774.6	14639.0	14927.7	13526.4	10067.9	7566.2
30°	18753.5	18496.0	18155.8	17348.1	16559.4	16049.8	15548.4	15876.4	14557.7	10750.9	7906.3
32.5°	20737.5	20439.4	19992.1	19170.9	18344.2	17556.8	16707.1	16834.5	15716.4	11509.9	8298.0
35°	22312.3	21951.8	21585.9	20771.4	20030.1	19193.9	18097.6	17846.8	17068.9	12371.8	8785.9
37.5°	23430.3	23046.8	22640.2	21932.8	21407.0	20844.6	19746.9	19040.8	18519.0	13380.0	9374.0
40°	24098.5	23693.2	23359.9	22850.3	22470.8	22310.9	21573.7	20442.1	20081.6	14556.4	10109.9
42.5°	24357.3	23964.3	23728.5	23358.5	23204.0	23441.2	23355.8	22199.8	21959.9	15967.2	10992.2
45°	24182.5	23822.0	23681.0	23510.3	23588.9	24238.0	25041.7	24126.9	24071.4	17551.4	12014.0
47.5°	23315.1	23030.5	23126.8	23262.3	23587.5	24689.3	26410.5	26190.9	26293.9	19364.7	13186.3
50°	21415.1	21255.2	21694.3	22388.2	23152.5	24799.1	27468.9	28150.6	28630.3	21281.0	14473.7
52.5°	17631.4	17735.7	19158.7	20648.1	22129.3	24507.7	28051.6	29858.1	30760.7	23022.4	15663.6
55°	13533.2	13480.3	15290.9	18035.2	20364.8	23651.2	28198.0	30889.4	32595.7	24685.3	16766.7
57.5°	10469.0	10425.7	11499.0	14541.5	17662.5	22077.8	27989.3	31526.4	34316.8	26273.6	17883.4
60°	8051.3	8025.6	8836.0	10851.2	14292.1	19801.1	27215.5	31832.7	36056.9	28001.5	19020.5
62.5°	5777.3	5811.2	6505.0	8063.5	11093.8	16606.8	25640.7	31641.6	37730.6	29534.2	20070.8
65°	3585.9	3623.8	4216.1	5617.4	7989.0	12950.4	22987.2	30816.3	39080.4	30668.5	20816.1
67.5°	2019.3	2038.2	2417.7	3405.7	5406.0	9592.2	19246.8	29116.8	39795.9	31145.6	20709.1
70°	1360.6	1367.4	1479.9	1877.0	3111.6	6449.5	14564.5	25978.1	38511.2	29560.0	18716.9
72.5°	1085.5	1089.6	1168.2	1263.1	1783.5	3996.5	9773.8	21033.0	32738.0	23430.3	13750.0
75°	802.3	819.9	967.6	1021.8	1208.9	2183.3	5256.9	13783.9	22099.5	13159.1	7476.7
77.5°	674.9	679.0	726.4	842.9	922.9	1238.7	1767.2	6091.7	9139.6	3888.1	1927.1
80°	456.7	456.7	540.7	619.3	703.4	815.8	697.9	1658.8	1692.7	627.5	357.8
82.5°	319.8	330.7	387.6	523.1	571.9	437.7	357.8	459.4	390.3	207.3	112.5
85°	88.1	108.4	265.6	388.9	304.9	132.8	215.5	181.6	134.2	77.2	47.4
87.5°	13.6	16.3	127.4	116.5	82.7	24.4	74.5	31.2	42.0	29.8	23.0
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°	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4	5186.4
2.5°	5052.2	4699.9	4323.1	3993.8	3713.3	3457.2	3332.5	3160.4	3157.7	3037.0
5°	4938.4	4197.1	3538.5	2981.5	2537.0	2218.5	2022.0	1856.6	1779.4	1748.2
7.5°	4870.6	3783.8	2882.5	2203.6	1737.4	1469.1	1315.9	1253.6	1219.7	1203.4
10°	4854.4	3423.3	2321.5	1631.7	1292.9	1165.5	1114.0	1082.8	1070.6	1058.4
12.5°	4844.9	3068.2	1875.6	1291.5	1126.2	1053.0	1006.9	973.0	958.1	947.3
15°	4839.5	2711.8	1508.4	1135.7	1028.6	956.8	901.2	868.7	848.4	837.5
17.5°	4847.6	2392.0	1256.3	1048.9	945.9	857.9	800.9	758.9	742.7	727.8
20°	4862.5	2066.7	1123.5	970.3	856.5	760.3	700.6	655.9	632.9	624.8
22.5°	4869.3	1746.9	1032.7	885.0	763.0	664.1	601.7	563.8	543.4	535.3
25°	4850.3	1467.7	945.9	794.2	670.8	576.0	515.0	483.8	473.0	464.8
27.5°	4805.6	1230.5	859.2	702.0	586.8	501.4	451.3	422.8	414.7	413.3
30°	4731.1	1046.2	772.5	618.0	512.3	437.7	394.4	371.3	367.3	364.6
32.5°	4661.9	921.5	692.5	546.2	449.9	382.2	344.2	329.3	326.6	326.6
35°	4590.1	828.0	613.9	481.1	394.4	336.1	304.9	291.4	294.1	292.7
37.5°	4535.9	746.7	552.9	428.2	345.6	292.7	265.6	256.1	261.6	261.6
40°	4503.4	681.7	490.6	379.5	302.2	254.8	231.7	225.0	234.5	235.8
42.5°	4502.0	619.3	440.4	334.7	262.9	222.3	201.9	195.2	206.0	208.7
45°	4527.8	570.5	391.7	292.7	230.4	192.4	170.8	164.0	176.2	177.5
47.5°	4633.5	529.9	348.3	257.5	201.9	166.7	140.9	134.2	147.7	149.1
50°	4808.3	475.7	300.9	225.0	176.2	140.9	113.8	108.4	123.3	124.7
52.5°	4973.6	424.2	257.5	193.8	153.1	116.5	90.8	88.1	103.0	105.7
55°	5046.8	372.7	220.9	166.7	132.8	96.2	71.8	73.2	88.1	90.8
57.5°	5086.1	329.3	191.1	143.7	115.2	78.6	61.0	62.3	75.9	78.6
60°	5117.3	286.0	168.0	126.0	100.3	66.4	52.9	51.5	62.3	65.1
62.5°	5101.0	245.3	147.7	109.8	85.4	58.3	44.7	40.7	47.4	48.8
65°	4895.0	212.8	127.4	93.5	73.2	48.8	35.2	24.4	28.5	29.8
67.5°	4317.7	187.0	108.4	80.0	59.6	42.0	25.7	16.3	19.0	20.3
70°	3222.7	159.9	88.1	66.4	48.8	33.9	19.0	10.8	13.6	14.9
72.5°	1741.5	131.5	70.5	51.5	36.6	25.7	12.2	6.8	8.1	8.1
75°	719.6	94.9	52.9	35.2	25.7	19.0	9.5	2.7	2.7	2.7
77.5°	267.0	58.3	33.9	27.1	20.3	14.9	6.8	1.4	0.0	0.0
80°	122.0	31.2	25.7	21.7	16.3	12.2	5.4	0.0	0.0	0.0
82.5°	56.9	21.7	20.3	17.6	13.6	9.5	4.1	0.0	0.0	0.0
85°	27.1	17.6	19.0	16.3	13.6	8.1	2.7	0.0	0.0	0.0
87.5°	16.3	19.0	19.0	16.3	13.6	8.1	1.4	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)