

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: P639030

Luminaire Tested: **USSL-M-C097-D-U-T3-BZ-7030-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C097-D-U-T3-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS 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: 44949 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 346
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

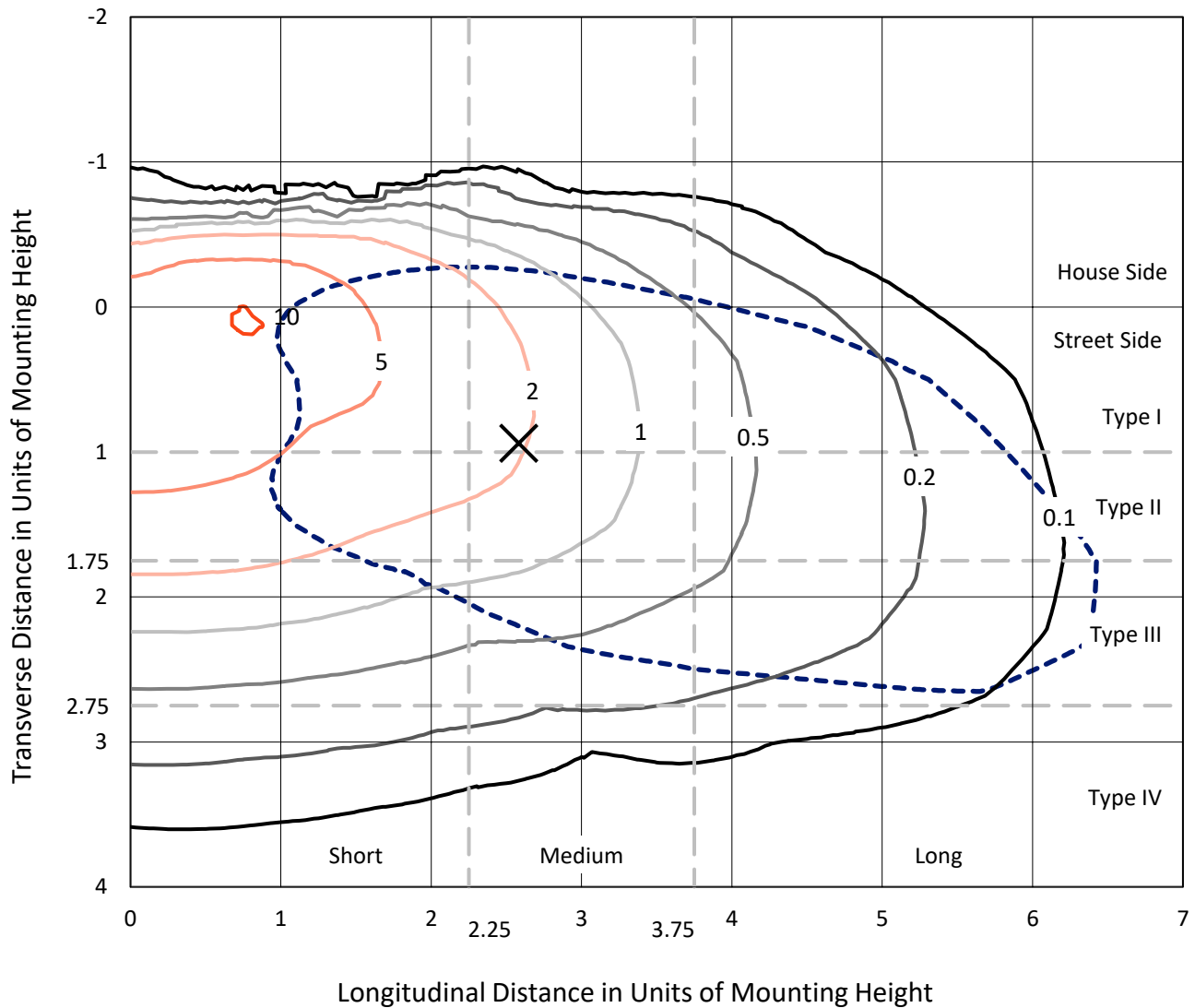


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

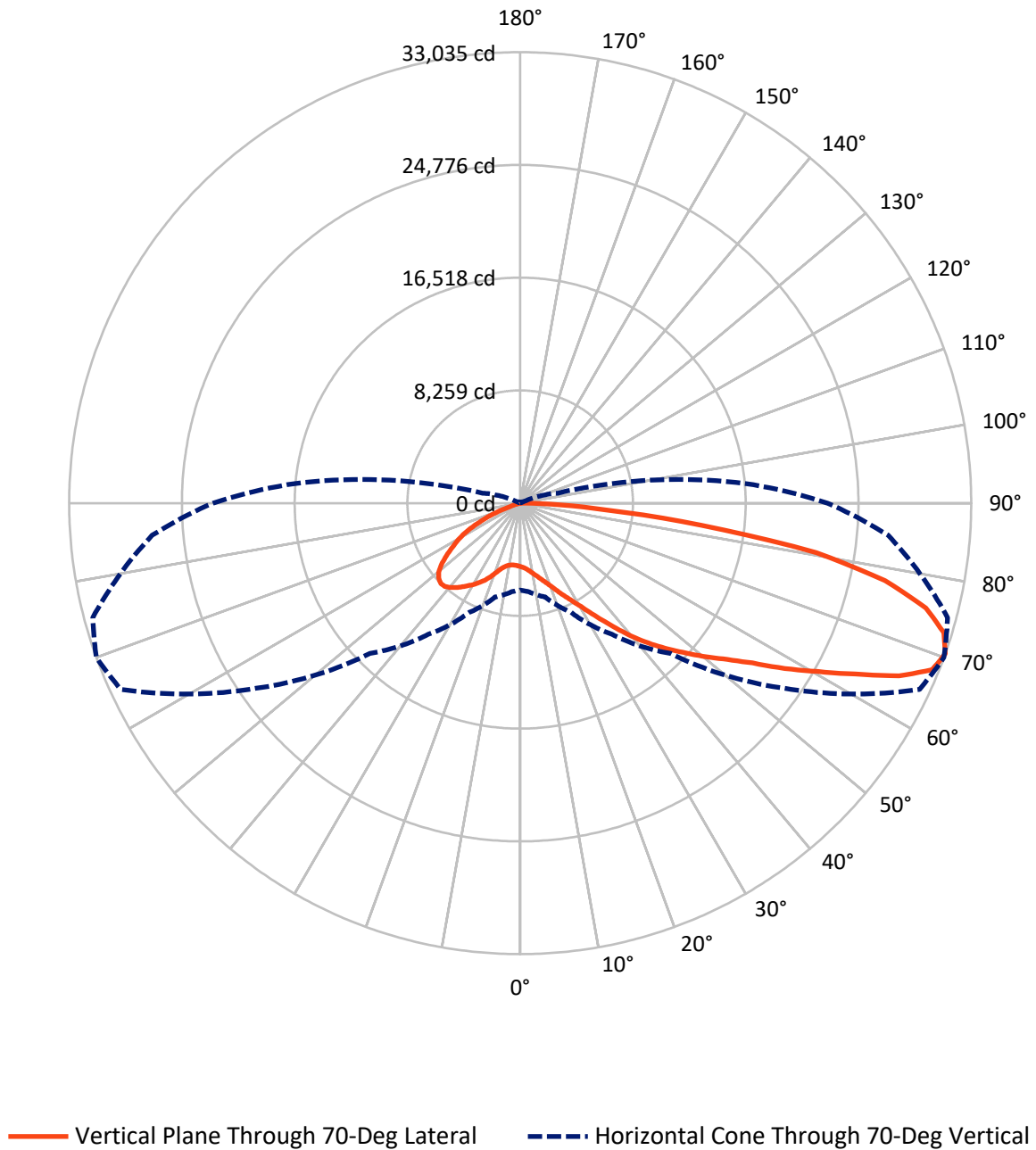


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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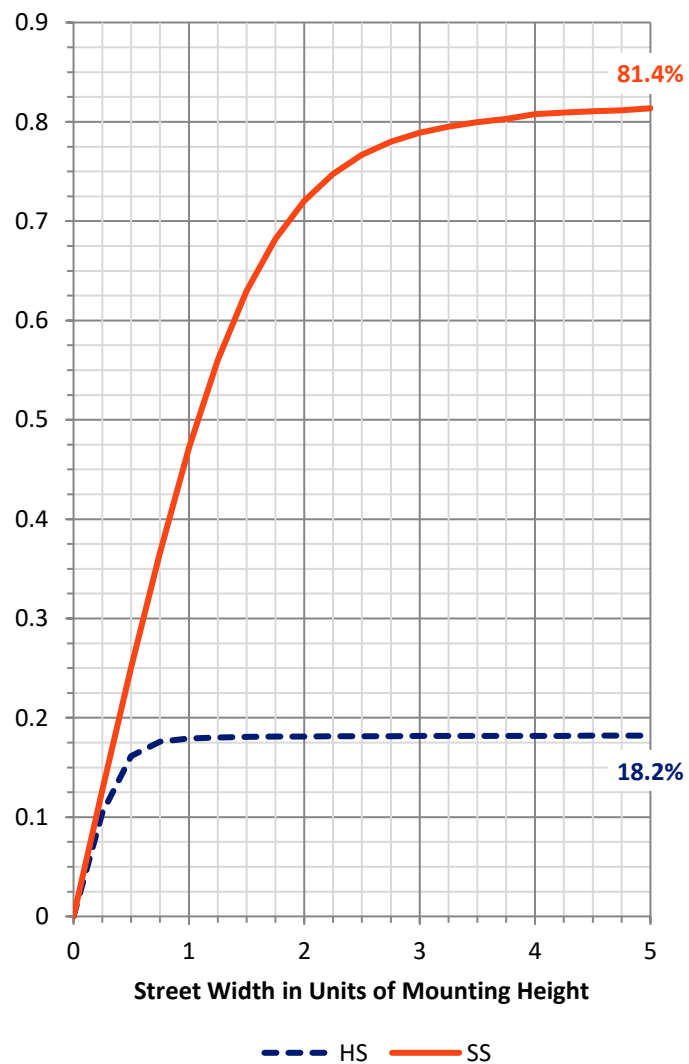
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8274.2	0.0	8274.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	36674.8	0.0	36674.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	44949.0	0.0	44949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	1.0
10°-20°	1393.2	3.1
20°-30°	2566.8	5.7
30°-40°	4286.9	9.5
40°-50°	6688.2	14.9
50°-60°	9173.3	20.4
60°-70°	10887.3	24.2
70°-80°	8025.2	17.9
80°-90°	1481.1	3.3
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°	44949.0	100.0
0°-180°	44949.0	100.0

Coefficient of Utilization



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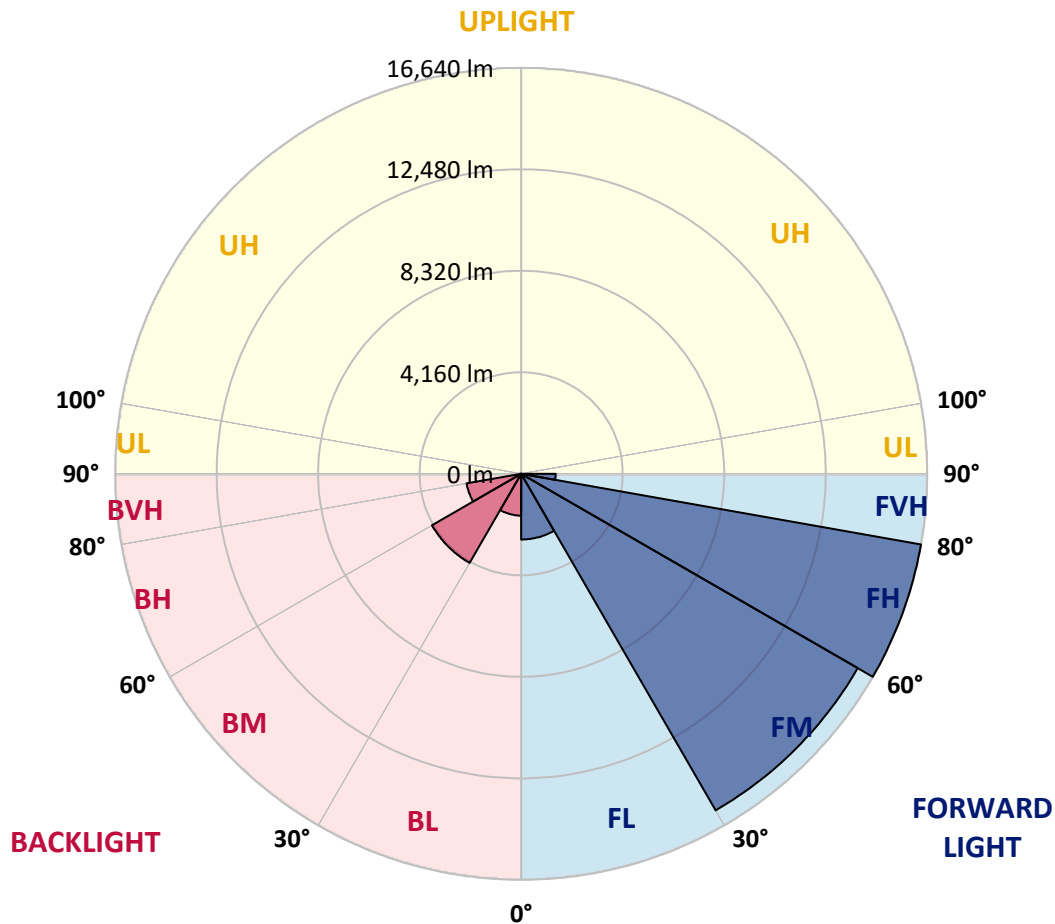
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2693.8	6.0			
FM	(30°-60°)	15928.1	35.4			
FH	(60°-80°)	16640.1	37.0			G5
FVH	(80°-90°)	1412.7	3.1			G5
BL	(0°-30°)	1713.1	3.8	B3/2500		
BM	(30°-60°)	4220.3	9.4	B3/5000		
BH	(60°-80°)	2272.4	5.1	B3/2500		G3/2500
BVH	(80°-90°)	68.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3
2.5°	4851.6	4859.4	4878.1	4841.7	4841.7	4781.9	4777.9	4758.3	4723.9	4711.2	4693.5
5°	5067.6	5082.3	5084.3	5056.8	5036.2	4975.3	4937.0	4897.7	4848.6	4823.1	4768.1
7.5°	5234.5	5245.3	5267.9	5250.2	5238.4	5158.9	5138.3	5087.2	5019.5	4977.3	4888.9
10°	5349.4	5384.7	5403.4	5399.5	5424.0	5366.1	5359.2	5303.2	5235.5	5176.6	5069.5
12.5°	5437.8	5468.2	5507.5	5535.0	5581.1	5580.1	5578.2	5544.8	5484.9	5407.3	5283.6
15°	5503.5	5540.9	5605.7	5670.5	5750.0	5773.6	5841.3	5832.5	5772.6	5704.8	5548.7
17.5°	5653.8	5687.2	5739.2	5816.8	5924.8	5993.5	6106.4	6141.8	6113.3	6043.6	5869.8
20°	5874.7	5882.6	5933.6	6004.3	6124.1	6264.5	6464.8	6554.2	6495.3	6465.8	6300.9
22.5°	6135.9	6159.5	6166.3	6231.1	6349.0	6556.1	6831.1	6979.3	6989.2	6920.4	6799.7
25°	6434.4	6442.2	6428.5	6481.5	6649.4	6891.0	7217.0	7453.6	7514.5	7496.8	7461.5
27.5°	6749.6	6797.7	6798.7	6815.4	6970.5	7233.7	7650.0	8027.0	8106.6	8144.9	8302.0
30°	7529.2	7548.8	7468.3	7324.0	7370.1	7657.8	8144.9	8639.7	8779.2	8945.1	9402.7
32.5°	8520.9	8484.6	8366.8	8105.6	7914.1	8140.9	8667.2	9309.4	9650.1	10024.2	10498.5
35°	9484.2	9458.6	9365.4	9104.2	8774.3	8667.2	9223.0	10089.0	10648.7	11386.1	11782.8
37.5°	10386.5	10412.1	10342.4	10085.1	9708.0	9447.8	9839.6	10906.9	11781.8	12739.2	13074.0
40°	11269.3	11290.9	11267.3	11039.5	10821.5	10451.3	10552.5	11780.8	12968.0	14032.3	14311.2
42.5°	11965.4	12045.9	12133.3	11883.0	11779.9	11557.0	11300.7	12586.0	14124.6	15265.6	15469.8
45°	12551.6	12539.8	12639.0	12647.9	12690.1	12588.0	12260.0	13483.5	15248.9	16442.9	16491.0
47.5°	12975.8	12931.6	13027.8	13302.8	13566.9	13540.4	13371.5	14401.5	16407.5	17564.2	17502.4
50°	13198.7	13201.6	13426.5	13877.2	14403.5	14545.9	14497.8	15719.2	17704.6	18771.0	18540.2
52.5°	13373.5	13448.1	13815.3	14399.6	15252.8	15569.0	15646.6	17352.1	19006.6	19959.1	19521.2
55°	13452.0	13580.7	13996.0	14735.4	15863.6	16514.6	16819.9	19064.6	20654.3	21438.8	20570.8
57.5°	13038.6	13190.8	13821.2	14821.8	16282.8	17236.3	18033.6	21094.2	22849.8	23065.8	21803.1
60°	12067.6	12167.7	13175.1	14643.1	16379.1	17899.1	19429.8	23566.6	25037.5	24985.4	23075.6
62.5°	11115.1	11176.0	12098.0	13966.5	16110.0	18223.1	20852.6	26317.9	27561.0	27019.9	24322.6
65°	9813.1	9909.3	10946.2	12737.2	15262.7	18073.8	22363.8	29219.4	30504.7	29978.4	25680.6
67.5°	8258.8	8358.9	9233.8	10952.1	13883.1	17295.2	23205.2	31420.8	32544.1	31884.3	26623.2
70°	6371.5	6492.3	7118.8	8831.2	11733.7	15575.9	23644.2	32279.0	33035.0	32407.6	27058.2
72.5°	4429.4	4545.2	4929.1	6019.0	8946.1	13080.9	23244.5	32115.0	32443.0	31863.6	26186.3
75°	2846.5	3012.5	3321.8	4022.8	5273.8	9456.7	20823.2	30502.7	30690.3	29828.2	23935.8
77.5°	433.0	493.9	1811.6	2357.5	3325.7	4536.4	14761.9	26994.4	27326.3	26336.5	20783.9
80°	305.4	316.2	781.6	1518.0	2008.0	2535.3	6845.8	19621.3	21989.7	20742.6	14649.0
82.5°	218.0	235.7	371.2	992.7	1120.3	972.1	2228.9	11123.9	13347.0	13279.2	7810.0
85°	137.5	152.2	225.8	341.7	604.9	571.5	714.8	4577.6	6232.1	6254.7	3042.9
87.5°	72.7	79.5	131.6	201.3	284.8	318.1	349.6	1305.9	2197.5	2092.4	676.5
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°	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3	4649.3
2.5°	4663.0	4648.3	4617.9	4565.8	4514.8	4479.4	4471.6	4420.5	4414.6	4419.5	4417.6
5°	4722.0	4686.6	4608.1	4504.0	4401.9	4318.4	4259.5	4174.1	4135.8	4122.0	4138.7
7.5°	4828.0	4767.1	4639.5	4479.4	4315.5	4172.1	4057.2	3945.3	3890.3	3849.0	3817.6
10°	4981.2	4897.7	4710.2	4487.3	4261.4	4065.1	3882.4	3723.4	3613.4	3551.5	3532.9
12.5°	5186.4	5072.5	4825.1	4542.3	4247.7	3976.7	3727.3	3503.4	3355.2	3270.7	3255.0
15°	5420.1	5308.2	5013.6	4668.0	4307.6	3960.0	3639.9	3354.2	3113.6	2992.8	2958.5
17.5°	5730.4	5605.7	5287.5	4886.9	4448.0	4003.2	3572.2	3167.6	2830.8	2667.8	2646.2
20°	6165.3	6032.8	5678.3	5177.6	4632.6	4046.4	3474.9	2951.6	2512.7	2293.7	2244.6
22.5°	6681.8	6564.0	6151.6	5481.9	4778.9	4034.6	3321.8	2635.4	2090.5	1840.1	1796.9
25°	7389.8	7275.9	6639.6	5734.3	4852.5	3949.2	3062.5	2205.3	1578.9	1319.7	1303.0
27.5°	8250.9	8000.5	7071.6	5938.5	4825.1	3727.3	2638.4	1603.4	1061.4	857.2	832.7
30°	9168.0	8771.3	7554.7	6103.5	4747.5	3374.8	2011.9	1056.5	665.7	560.7	539.1
32.5°	10241.2	9707.1	8013.3	6215.4	4569.8	2881.9	1369.8	649.0	421.2	358.4	354.5
35°	11372.4	10691.9	8579.8	6275.3	4248.7	2226.0	783.6	379.0	263.1	256.3	256.3
37.5°	12578.1	11759.2	9194.5	6284.2	3761.7	1463.0	453.6	226.8	202.3	232.7	244.5
40°	13681.8	12725.4	9817.0	6201.7	3142.1	836.6	250.4	172.8	181.7	215.0	225.8
42.5°	14738.3	13660.2	10427.8	6006.3	2253.5	459.5	176.7	151.2	161.0	178.7	182.6
45°	15684.9	14500.7	10890.3	5646.9	1397.2	258.2	160.0	132.6	133.5	146.3	148.3
47.5°	16601.0	15284.3	11182.9	5095.1	722.7	213.1	146.3	119.8	116.8	129.6	133.5
50°	17470.9	16014.8	11355.7	4341.0	372.1	197.4	138.4	110.0	111.0	135.5	137.5
52.5°	18313.4	16711.9	11398.9	3265.8	257.3	177.7	126.7	103.1	107.0	140.4	145.3
55°	19219.7	17442.5	11302.7	1958.9	242.5	163.0	114.9	93.3	101.1	113.9	115.9
57.5°	20049.4	18167.1	10945.2	830.7	229.8	149.2	104.1	85.4	81.5	92.3	96.2
60°	20966.5	18856.4	10092.9	391.8	214.1	133.5	93.3	75.6	69.7	76.6	80.5
62.5°	22247.9	19373.9	8639.7	294.6	201.3	123.7	83.5	68.7	62.8	66.8	70.7
65°	22942.1	19423.9	6747.6	257.3	191.5	115.9	76.6	64.8	56.0	57.9	61.9
67.5°	23209.2	18437.1	4892.8	223.9	177.7	108.0	70.7	60.9	52.0	50.1	52.0
70°	22514.0	16536.2	2843.6	206.2	161.0	100.2	66.8	58.9	48.1	42.2	42.2
72.5°	20487.3	13928.3	1178.3	183.6	143.4	89.4	62.8	60.9	46.1	33.4	33.4
75°	17645.7	10852.9	351.5	152.2	122.7	81.5	62.8	62.8	45.2	25.5	25.5
77.5°	14011.7	6766.3	209.1	118.8	97.2	72.7	61.9	59.9	34.4	19.6	18.7
80°	7964.2	2400.7	152.2	88.4	74.6	59.9	55.0	49.1	25.5	16.7	16.7
82.5°	3182.3	544.0	108.0	62.8	60.9	46.1	36.3	28.5	20.6	14.7	14.7
85°	834.6	171.8	64.8	41.2	37.3	34.4	12.8	11.8	16.7	13.7	13.7
87.5°	137.5	68.7	34.4	31.4	23.6	16.7	5.9	5.9	9.8	11.8	12.8
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)