

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: McGRAW-EDISON

Report Number: P510800

Luminaire Tested: **CTN-CA8-330-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-330-750-U-T4-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44109 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

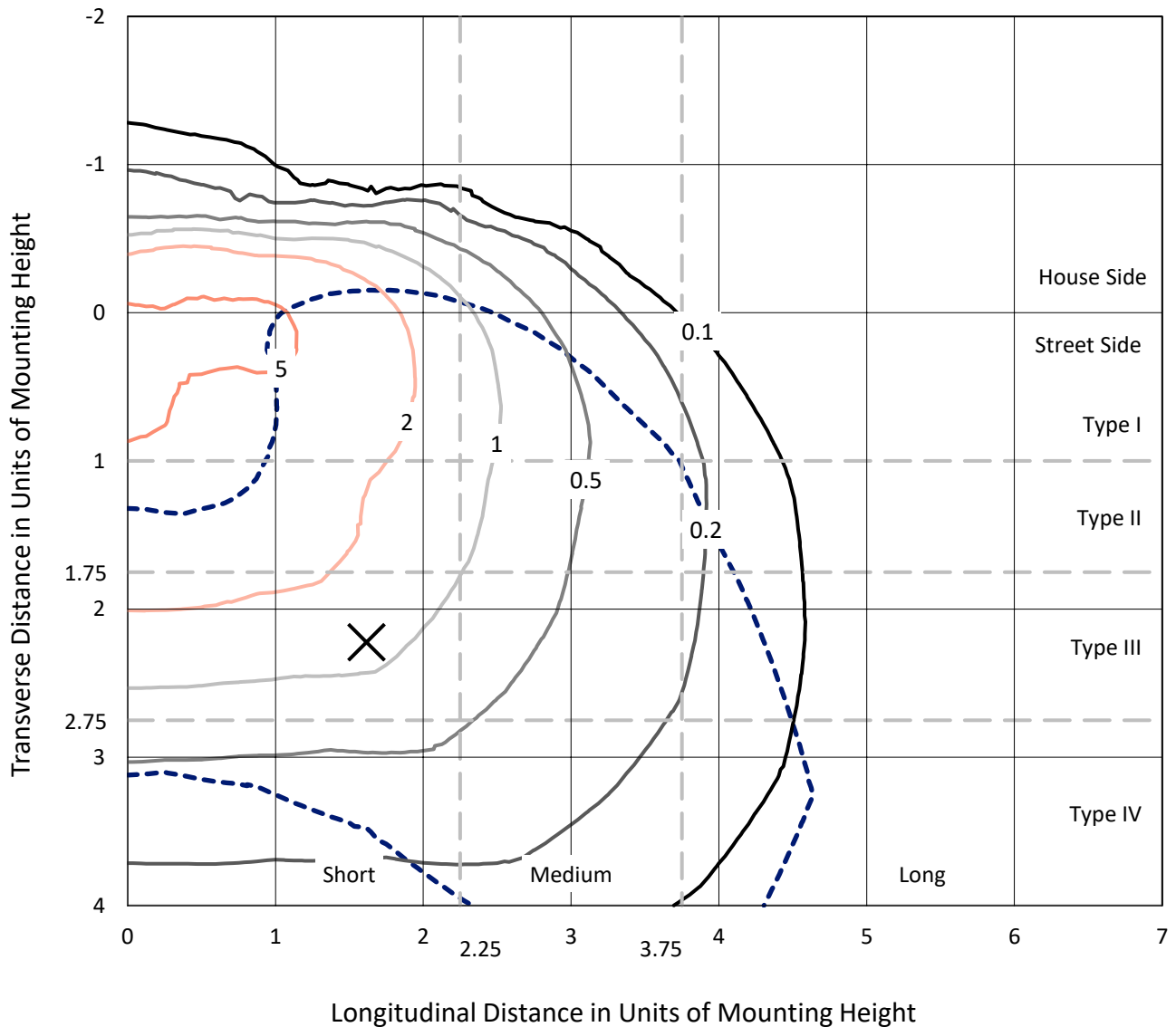
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

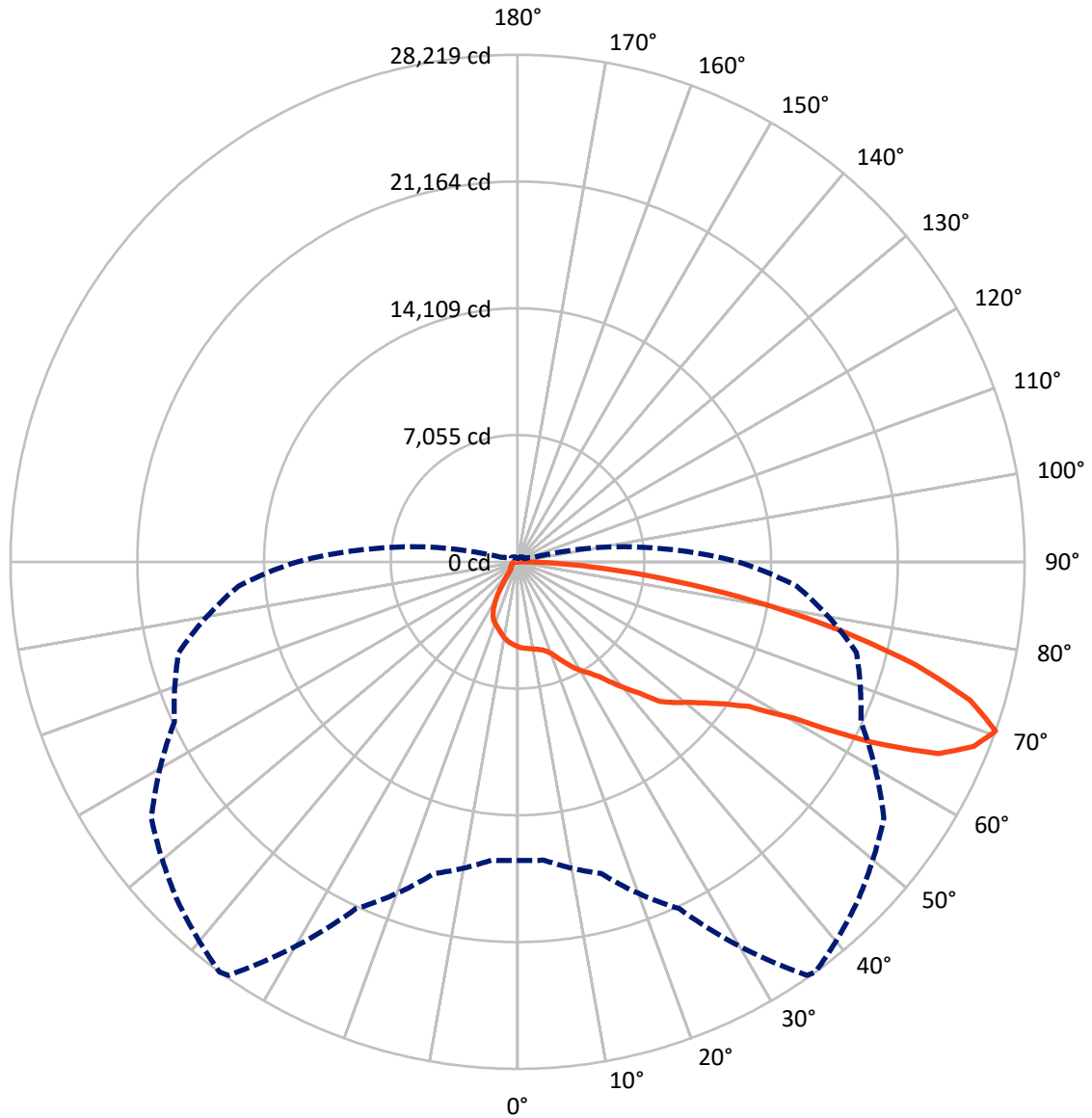
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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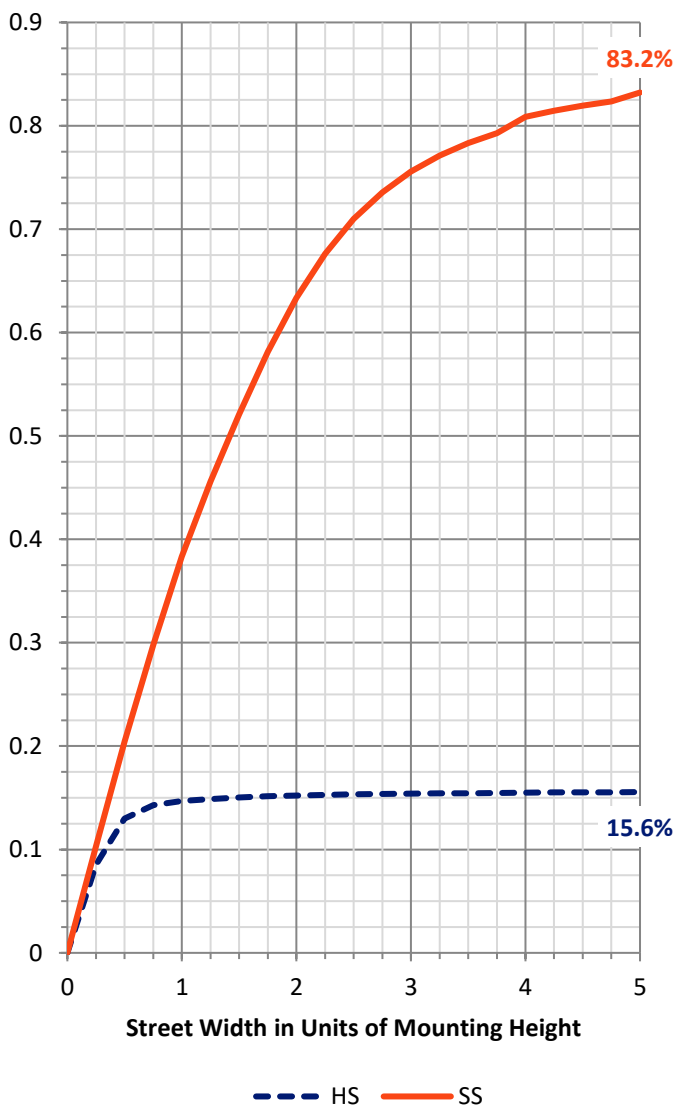
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6960.7	0.0	6960.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	37148.3	0.0	37148.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	44109.0	0.0	44109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.0
10°-20°	1332.9	3.0
20°-30°	2397.0	5.4
30°-40°	3793.2	8.6
40°-50°	5928.1	13.4
50°-60°	8512.6	19.3
60°-70°	11546.6	26.2
70°-80°	8545.7	19.4
80°-90°	1604.6	3.6
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°	44109.0	100.0
0°-180°	44109.0	100.0

Coefficient of Utilization



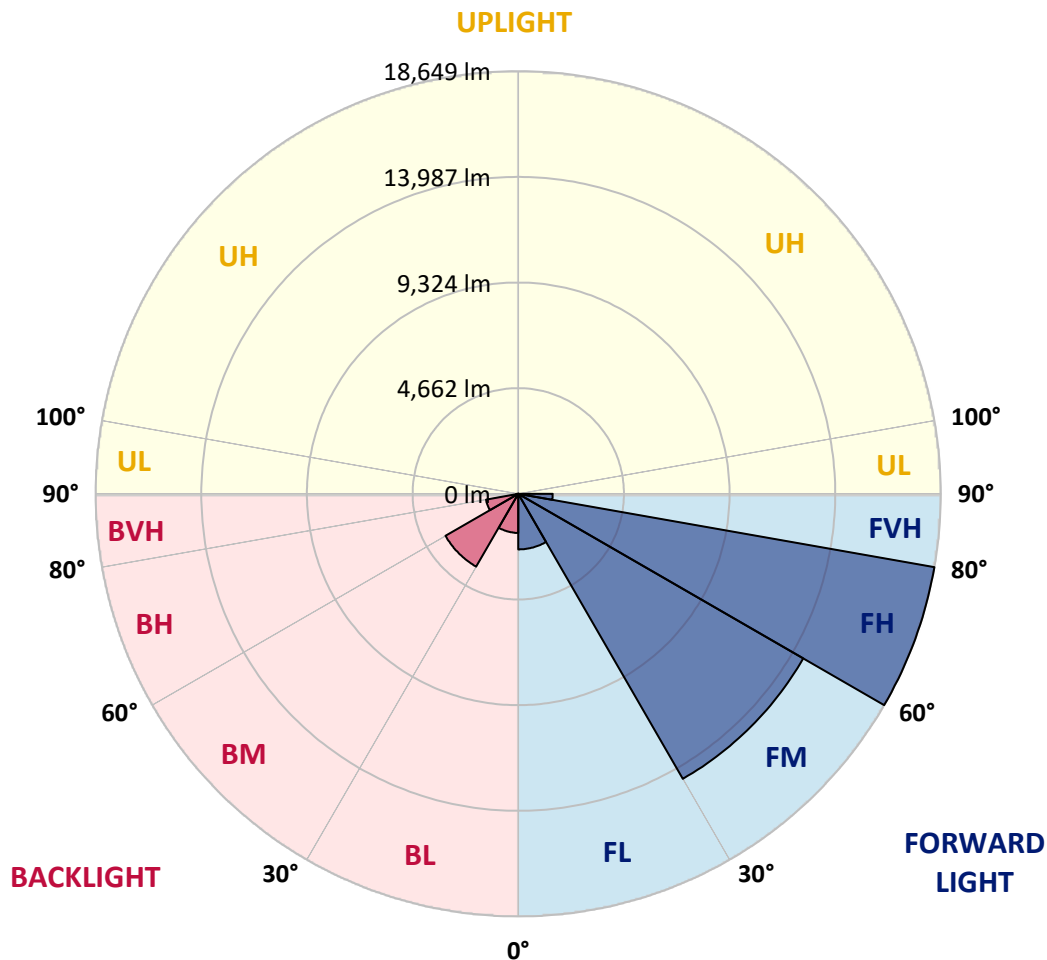
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.3	5.6			
FM (30°-60°)	14524.7	32.9			
FH (60°-80°)	18648.8	42.3			G5
FVH (80°-90°)	1521.4	3.4			G5
BL (0°-30°)	1724.8	3.9	B3/2500		
BM (30°-60°)	3709.2	8.4	B3/5000		
BH (60°-80°)	1443.5	3.3	B3/2500		G3/2500
BVH (80°-90°)	83.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1
2.5°	4821.8	4811.6	4803.5	4806.5	4800.4	4804.5	4795.3	4784.1	4757.6	4746.4	4741.3
5°	4864.6	4861.5	4853.4	4847.2	4836.0	4832.0	4821.8	4830.9	4816.7	4780.0	4758.6
7.5°	4890.0	4889.0	4879.8	4866.6	4872.7	4877.8	4888.0	4873.7	4855.4	4838.1	4794.3
10°	4901.2	4901.2	4890.0	4897.1	4928.7	4931.8	4936.9	4946.0	4928.7	4903.2	4859.5
12.5°	4929.7	4927.7	4931.8	4955.2	4987.8	4994.9	5020.4	5020.4	5022.4	5007.1	4956.2
15°	5001.0	5001.0	5010.2	5031.6	5087.6	5091.6	5129.3	5162.9	5167.0	5144.6	5105.9
17.5°	5166.0	5161.9	5156.8	5170.1	5230.1	5232.2	5297.3	5340.1	5351.3	5375.8	5369.6
20°	5479.6	5475.5	5474.5	5475.5	5471.5	5465.4	5529.5	5575.3	5632.4	5675.1	5696.5
22.5°	5928.7	5919.5	5919.5	5869.6	5830.9	5837.1	5847.2	5872.7	5948.1	6023.4	6103.9
25°	6412.4	6406.3	6411.4	6284.1	6232.2	6252.5	6239.3	6279.0	6377.8	6443.0	6528.5
27.5°	6807.5	6816.7	6788.2	6689.4	6655.8	6671.1	6640.5	6754.6	6863.5	6977.6	7106.9
30°	7299.4	7250.5	7180.2	7060.1	7047.8	7049.9	7047.8	7231.1	7457.2	7620.1	7799.4
32.5°	7941.9	7950.1	7792.2	7509.1	7405.3	7391.0	7431.8	7700.6	8006.1	8367.6	8603.9
35°	8591.6	8604.9	8489.8	8194.5	7898.2	7853.3	7793.3	8142.5	8583.5	9308.5	9664.9
37.5°	9281.0	9327.9	9191.4	8927.7	8576.4	8534.6	8250.5	8593.7	9245.4	10422.6	10890.0
40°	10203.6	10153.7	9988.8	9653.7	9326.9	9259.7	8929.7	9110.0	10096.7	11817.7	12156.8
42.5°	10883.9	10869.6	10730.1	10399.2	10070.2	10016.3	9750.5	9946.0	11169.0	13232.2	13383.9
45°	11423.6	11511.2	11508.1	11300.4	11115.0	11084.5	10927.7	11215.9	12465.4	14567.2	14492.8
47.5°	11903.2	11957.2	11870.6	11780.0	11693.5	11703.6	11819.7	12412.4	13790.2	15733.2	15404.2
50°	12688.4	12619.1	12231.1	12161.9	12284.1	12289.2	12642.5	13555.0	15249.5	16741.3	16176.1
52.5°	13735.2	13659.8	12862.5	12744.4	13033.6	13055.0	13642.5	14693.5	16754.5	17704.6	16944.0
55°	15293.2	15118.1	14263.7	13734.2	13866.6	13953.1	14664.9	15788.2	17932.8	18553.9	17525.4
57.5°	17206.7	17334.0	16896.1	15699.6	15148.6	15181.2	15835.0	16836.0	18972.5	19297.3	17865.5
60°	19229.1	19198.5	19381.8	18877.8	17822.8	17647.6	17314.6	17905.3	19778.0	19923.6	18215.8
62.5°	20337.0	20515.2	21126.2	21227.0	22179.2	22086.5	19816.7	19231.1	20708.7	20316.7	18311.6
65°	20330.9	20408.3	21545.8	22796.3	25770.8	25744.3	24689.4	21148.6	21402.2	20526.4	18120.1
67.5°	19017.3	19137.4	20467.4	22910.3	27430.7	27399.1	26670.0	23844.1	21620.1	20273.9	17227.1
70°	16622.2	16662.9	17960.2	21304.4	28097.7	28218.9	26738.2	24878.8	21078.4	19523.4	15598.7
72.5°	13712.8	13628.3	14897.1	18193.4	26399.1	26326.8	25607.9	23643.5	20165.9	18066.2	12722.0
75°	10096.7	10332.0	11470.4	14607.9	22602.8	22867.6	23186.3	21753.5	17910.4	14889.0	8797.3
77.5°	6667.0	6966.4	8117.1	10953.1	17894.1	18305.5	19131.3	18502.0	14570.2	10680.2	4189.4
80°	3445.0	3671.1	4706.7	7267.8	12827.9	13421.6	14935.8	14013.2	10329.9	4828.9	937.9
82.5°	1303.5	1273.9	2109.0	4159.9	8225.0	8764.7	9865.6	8403.2	3676.2	848.3	435.8
85°	572.3	605.9	873.7	1897.1	4702.6	4772.9	5588.6	3276.0	538.7	405.3	296.3
87.5°	247.5	284.1	366.6	545.8	1586.6	1832.0	2266.8	1040.7	162.9	140.5	148.7
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°	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1	4726.1
2.5°	4732.2	4726.1	4715.9	4690.4	4648.7	4643.6	4639.5	4635.4	4627.3	4631.4	4654.8
5°	4742.4	4731.2	4694.5	4657.8	4621.2	4588.6	4548.9	4533.6	4513.2	4500.0	4524.4
7.5°	4777.0	4753.6	4699.6	4649.7	4549.9	4502.0	4451.1	4391.0	4348.3	4320.8	4345.2
10°	4835.0	4805.5	4738.3	4635.4	4518.3	4387.0	4297.3	4197.5	4116.1	4093.7	4116.1
12.5°	4929.7	4885.9	4807.5	4668.0	4460.3	4288.2	4118.1	3986.8	3855.4	3817.7	3828.9
15°	5083.5	5048.9	4928.7	4736.2	4461.3	4198.6	3946.0	3734.2	3562.1	3502.0	3498.0
17.5°	5329.9	5293.3	5154.8	4871.7	4498.0	4128.3	3777.0	3454.2	3193.5	3061.1	3039.7
20°	5683.3	5632.4	5422.6	5071.3	4577.4	4097.8	3620.2	3186.3	2781.1	2532.6	2494.9
22.5°	6076.4	6022.4	5712.8	5225.0	4634.4	4037.7	3470.5	2890.0	2356.4	2052.9	2010.2
25°	6565.2	6447.0	5990.8	5370.7	4621.2	3911.4	3227.1	2487.8	1909.4	1646.6	1618.1
27.5°	7047.8	6898.2	6273.9	5447.0	4563.1	3710.8	2870.7	2017.3	1494.9	1308.6	1285.1
30°	7646.6	7357.4	6525.4	5482.7	4416.5	3410.4	2393.1	1533.6	1119.1	990.8	968.4
32.5°	8358.4	7920.6	6761.7	5443.0	4172.1	2952.1	1860.5	1123.2	832.0	751.5	750.5
35°	9297.3	8611.0	7021.4	5312.6	3797.3	2458.2	1304.5	767.8	648.7	621.2	626.3
37.5°	10395.1	9545.8	7285.1	5098.8	3373.7	1880.9	869.7	591.6	570.3	571.3	572.3
40°	11552.9	10578.4	7640.5	4798.4	2859.5	1361.5	626.3	531.6	530.5	540.7	543.8
42.5°	12658.8	11581.4	8078.4	4398.2	2320.8	900.2	542.8	507.1	493.9	498.0	501.0
45°	13686.3	12441.9	8451.1	4008.1	1743.4	642.6	532.6	478.6	458.2	456.2	458.2
47.5°	14514.2	13131.3	8678.2	3549.9	1242.4	533.6	511.2	452.1	423.6	417.5	414.5
50°	15144.6	13643.6	8760.7	3030.5	840.1	509.2	482.7	421.6	387.0	388.0	388.0
52.5°	15759.6	14108.9	8665.0	2507.1	618.1	487.8	463.3	397.1	360.5	379.8	384.9
55°	16202.6	14304.5	8385.9	1940.9	515.3	461.3	442.0	368.6	343.2	374.7	384.9
57.5°	16461.3	14458.2	7873.7	1401.2	472.5	435.8	414.5	342.2	318.7	326.9	332.0
60°	16622.2	14243.4	7196.5	958.2	450.1	415.5	387.0	324.8	293.3	273.9	270.9
62.5°	16533.6	13705.7	6304.5	658.9	426.7	393.1	363.5	308.6	266.8	241.3	239.3
65°	15811.6	12710.8	4840.1	533.6	412.4	382.9	349.3	293.3	248.5	224.0	221.0
67.5°	14472.5	10922.6	2826.9	474.5	406.3	372.7	338.1	279.0	238.3	211.8	207.7
70°	12271.9	8215.9	947.0	423.6	405.3	371.7	328.9	268.8	227.1	199.6	195.5
72.5°	8853.3	4957.2	461.3	372.7	378.8	356.4	321.8	260.7	220.0	185.3	178.2
75°	5031.6	1614.0	416.5	321.8	352.3	340.1	317.7	261.7	223.0	168.0	159.9
77.5°	1431.8	471.5	402.2	273.9	333.0	351.3	297.4	236.3	228.1	155.8	145.6
80°	483.7	419.6	388.0	212.8	268.8	290.2	257.6	207.7	230.1	141.5	131.4
82.5°	388.0	421.6	325.9	170.1	204.7	220.0	204.7	186.4	186.4	126.3	118.1
85°	310.6	391.0	206.7	135.4	152.7	169.0	144.6	139.5	130.3	105.9	102.9
87.5°	180.2	122.2	85.5	69.2	64.2	65.2	56.0	67.2	82.5	72.3	71.3
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)