

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: P237526

Luminaire Tested: **CTN-6-3-D-E1-T3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-6-3-D-E1-T3-7030-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28085 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

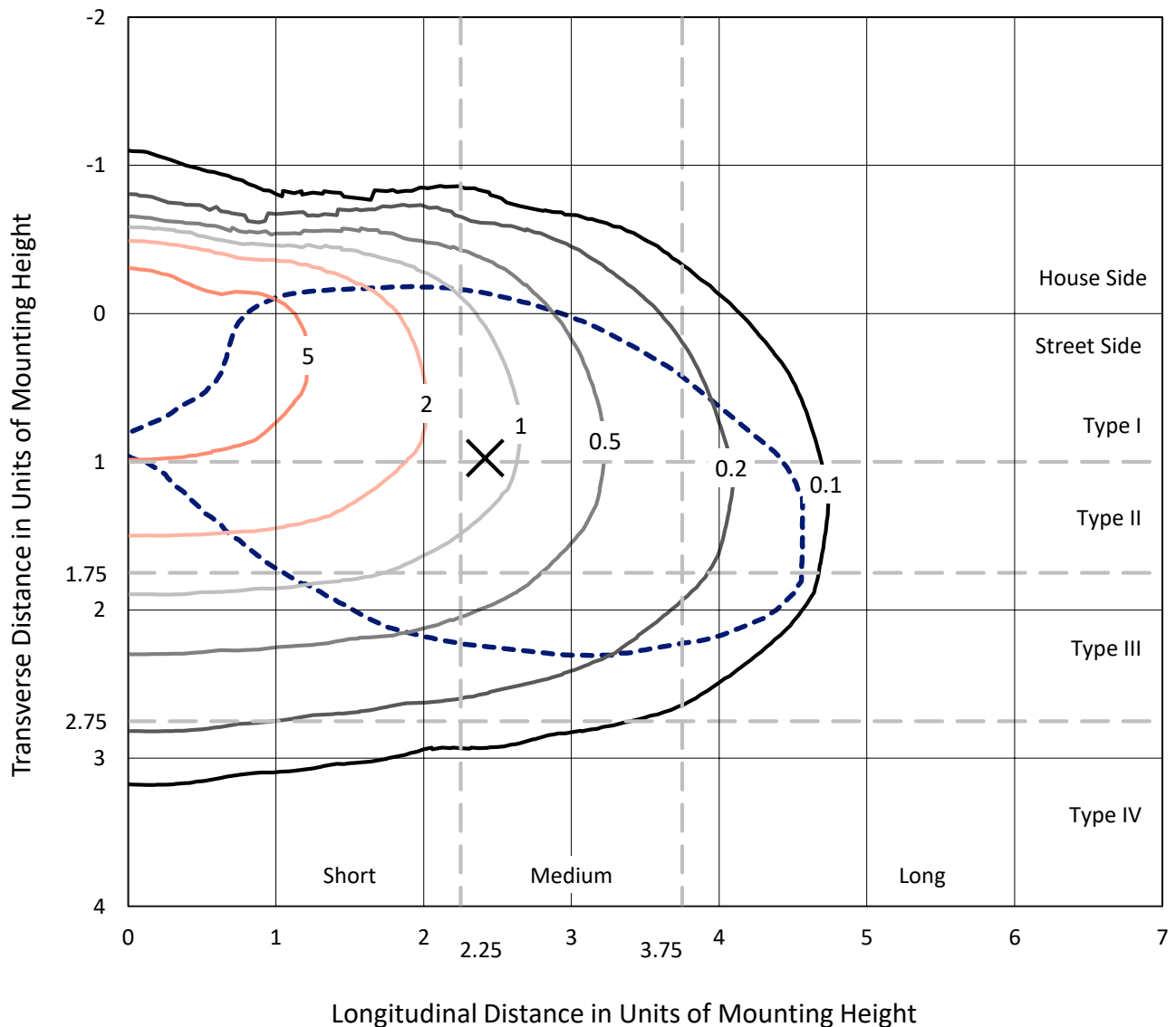
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

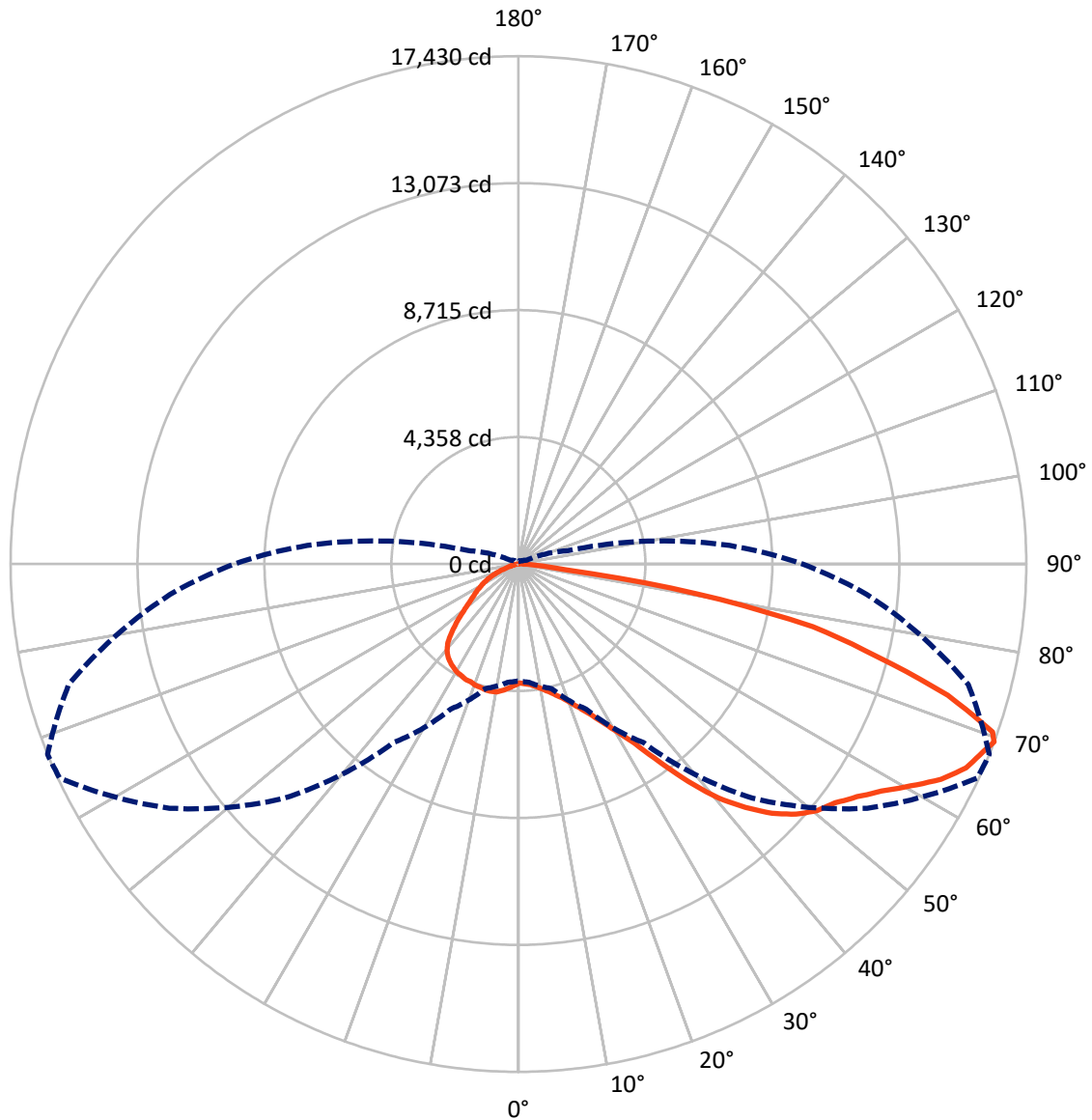
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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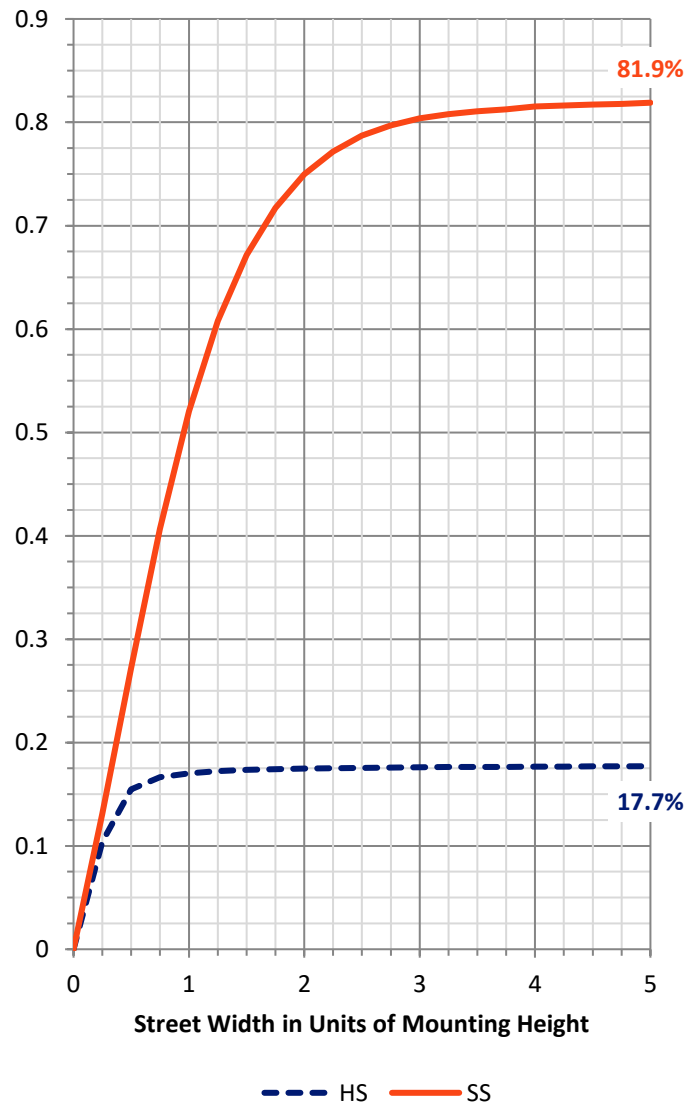
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5040.2	0.0	5040.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	23044.8	0.0	23044.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	28085.0	0.0	28085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.3	1.5
10°-20°	1287.4	4.6
20°-30°	2200.6	7.8
30°-40°	3390.9	12.1
40°-50°	4866.2	17.3
50°-60°	5856.6	20.9
60°-70°	6146.0	21.9
70°-80°	3560.6	12.7
80°-90°	366.4	1.3
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°	28085.0	100.0
0°-180°	28085.0	100.0

Coefficient of Utilization



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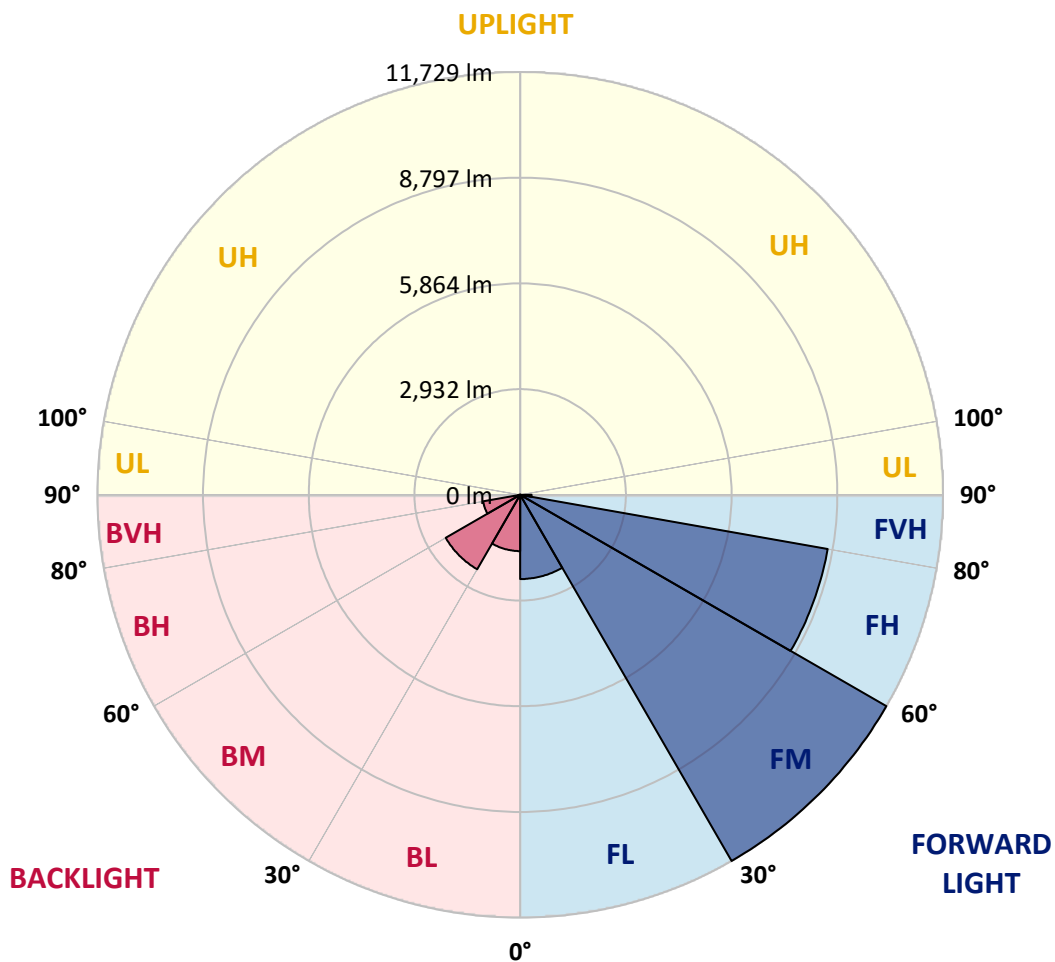
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.5	8.3			
FM (30°-60°)	11728.7	41.8			
FH (60°-80°)	8661.1	30.8			G4/12000
FVH (80°-90°)	318.4	1.1			G3/500
BL (0°-30°)	1561.7	5.6	B3/2500		
BM (30°-60°)	2385.1	8.5	B2/2500		
BH (60°-80°)	1045.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	48.0	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1
2.5°	4130.8	4097.8	4101.7	4127.9	4050.1	4083.2	4062.7	4105.5	4112.4	4091.9	4110.4
5°	4212.6	4184.4	4183.4	4209.7	4123.1	4148.4	4116.2	4145.4	4154.2	4132.8	4164.9
7.5°	4371.2	4341.0	4335.2	4361.5	4251.5	4259.3	4215.5	4230.1	4237.9	4208.7	4240.8
10°	4598.9	4565.8	4544.4	4559.0	4435.4	4416.0	4341.0	4339.1	4350.8	4310.9	4362.4
12.5°	4853.9	4814.9	4783.8	4786.7	4645.6	4612.5	4513.3	4478.2	4486.0	4432.5	4494.8
15°	5131.2	5074.8	5045.6	5046.5	4887.9	4832.5	4705.0	4647.6	4642.7	4591.1	4627.1
17.5°	5465.0	5419.2	5382.3	5362.8	5194.5	5084.5	4932.7	4857.8	4830.5	4796.5	4778.0
20°	5857.1	5799.7	5760.8	5754.0	5547.7	5401.7	5200.3	5101.0	5068.9	5040.7	4958.0
22.5°	6294.1	6235.7	6182.2	6173.4	5954.4	5778.3	5507.8	5385.2	5357.0	5324.8	5159.4
25°	6696.9	6690.1	6630.8	6621.0	6409.9	6181.2	5864.0	5707.3	5707.3	5669.3	5415.3
27.5°	7146.5	7156.2	7102.7	7091.0	6892.5	6639.5	6262.0	6112.1	6143.2	6075.1	5737.4
30°	7620.4	7600.0	7585.4	7598.0	7414.1	7146.5	6753.4	6626.9	6675.5	6597.7	6169.5
32.5°	8044.7	8029.1	8038.8	8087.5	7955.2	7708.0	7370.3	7291.5	7338.2	7386.9	6944.1
35°	8380.4	8347.3	8469.9	8577.0	8539.0	8304.5	8033.0	8199.4	8327.9	8549.7	8085.6
37.5°	8676.2	8651.9	8800.8	9019.7	9067.4	8937.0	8853.3	9317.5	9464.5	9763.2	9086.9
40°	8824.1	8819.3	9002.2	9287.3	9481.0	9565.7	9712.6	10345.1	10559.2	10640.9	9848.8
42.5°	8776.5	8792.0	9115.1	9555.0	9868.3	10231.3	10527.1	11222.9	11419.4	11352.3	10516.4
45°	8643.1	8650.9	8978.9	9664.9	10204.0	10915.4	11310.4	12036.4	12210.6	11974.1	11047.7
47.5°	8458.3	8461.2	8807.6	9589.0	10478.4	11534.3	11985.8	12686.4	12827.5	12493.7	11430.1
50°	8208.2	8213.0	8626.6	9493.6	10714.9	12041.2	12514.2	13190.5	13299.5	12862.5	11761.0
52.5°	7891.9	7934.7	8387.2	9340.9	10862.8	12401.3	12914.1	13560.3	13613.8	13303.4	12053.9
55°	7527.0	7571.8	8082.6	9133.6	10920.2	12605.6	13194.4	14015.7	14101.3	13795.8	12292.3
57.5°	7094.9	7156.2	7694.4	8796.9	10785.9	12691.3	13479.5	14578.1	14693.9	14310.5	12537.5
60°	6593.8	6669.7	7236.0	8376.5	10475.5	12781.8	14012.8	15332.3	15466.6	14864.2	12751.6
62.5°	6070.2	6118.9	6630.8	7803.4	9978.3	12851.8	14586.9	16261.6	16273.3	15349.8	12870.3
65°	5369.6	5421.2	5879.5	7079.4	9231.9	12629.0	14876.9	16913.6	16878.6	15730.3	12830.4
67.5°	4567.8	4616.4	4991.1	6179.2	8207.2	12004.3	14777.6	17173.4	17196.8	16006.7	12448.0
69°	4011.2	4075.4	4428.6	5495.1	7483.2	11364.9	14611.2	17375.8	17430.3	15981.4	12005.2
70°	3535.3	3618.0	3953.7	4890.8	6870.1	10784.0	14290.1	17261.0	17264.9	15725.4	11597.5
72.5°	2309.2	2359.8	2418.2	3173.3	4942.4	8545.8	12645.5	15308.0	15409.2	14032.2	10139.8
75°	1142.4	1187.2	1405.2	1678.6	2541.8	5724.8	10025.9	12541.4	12733.1	11916.7	8307.4
77.5°	630.6	639.3	716.2	1099.6	1317.6	2588.5	6852.6	9997.7	10333.4	9711.6	5966.1
80°	393.1	391.2	408.7	511.9	738.6	1227.1	2894.0	5610.9	6214.3	5070.9	2357.8
82.5°	306.5	300.7	301.7	330.9	312.4	578.0	1204.7	1633.8	1648.4	1463.6	917.6
85°	156.7	177.1	210.2	219.9	184.9	314.3	554.7	645.2	660.7	579.0	477.8
87.5°	52.5	53.5	56.4	55.5	49.6	108.0	205.3	239.4	213.1	120.7	163.5
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°	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1	4085.1
2.5°	4138.6	4129.9	4147.4	4187.3	4154.2	4184.4	4154.2	4255.4	4243.7	4236.9	4256.4
5°	4196.0	4195.1	4223.3	4287.5	4284.6	4338.1	4308.9	4409.2	4394.6	4392.6	4410.1
7.5°	4273.9	4292.4	4322.5	4388.7	4389.7	4433.5	4400.4	4479.2	4447.1	4439.3	4463.6
10°	4392.6	4397.5	4420.8	4466.6	4402.3	4421.8	4367.3	4429.6	4384.8	4380.0	4416.0
12.5°	4506.5	4513.3	4478.2	4463.6	4380.9	4355.6	4260.3	4293.4	4241.8	4236.9	4254.4
15°	4628.1	4582.4	4498.7	4451.0	4308.0	4216.5	4109.4	4044.2	3955.7	3914.8	3930.4
17.5°	4754.6	4666.1	4509.4	4393.6	4201.9	4068.6	3855.5	3744.5	3613.2	3546.0	3533.4
20°	4892.8	4768.2	4535.7	4364.4	4094.8	3832.1	3572.3	3318.3	3168.4	3099.4	3080.9
22.5°	5048.5	4896.7	4572.6	4267.1	3927.5	3608.3	3169.4	2849.3	2631.3	2564.1	2545.7
25°	5243.1	5040.7	4623.2	4242.8	3766.9	3242.4	2696.5	2333.5	2079.5	1977.4	1955.9
27.5°	5479.6	5239.2	4706.0	4127.0	3484.7	2834.7	2226.5	1809.0	1545.3	1424.6	1398.4
30°	5824.1	5493.2	4761.4	4058.8	3233.6	2411.4	1730.2	1264.1	1014.0	925.4	902.1
32.5°	6503.3	5929.1	4874.3	3902.2	2862.9	1919.0	1191.1	775.6	600.4	549.8	530.3
35°	7512.4	6750.5	5036.8	3716.3	2446.4	1365.3	707.4	449.6	361.0	342.5	336.7
37.5°	8432.0	7561.1	5351.1	3430.2	1899.5	839.8	409.7	288.0	265.7	268.6	268.6
40°	9125.8	8163.4	5718.0	3052.6	1288.4	471.0	281.2	239.4	244.3	245.2	244.3
42.5°	9775.8	8715.2	5895.1	2636.2	746.4	312.4	244.3	222.8	226.7	223.8	221.9
45°	10286.7	9110.2	5947.6	2075.6	408.7	279.3	229.7	207.3	205.3	207.3	209.2
47.5°	10618.6	9351.6	5827.9	1589.1	308.5	259.8	220.9	196.6	191.7	205.3	204.4
50°	10864.8	9517.0	5363.8	1208.6	300.7	243.3	210.2	183.9	185.9	202.4	200.5
52.5°	11043.8	9559.8	4854.8	969.2	287.1	231.6	200.5	178.1	176.1	188.8	189.8
55°	11185.9	9445.0	4537.6	762.9	275.4	219.9	192.7	172.2	162.5	166.4	165.4
57.5°	11274.4	9313.6	4175.6	636.4	264.7	207.3	182.0	156.7	142.1	143.0	142.1
60°	11255.0	9226.0	3760.1	521.6	251.1	195.6	167.4	140.1	125.5	121.6	121.6
62.5°	11216.0	9046.0	3330.9	454.4	239.4	191.7	149.9	127.5	116.8	112.9	112.9
65°	10951.4	8616.9	2756.8	389.2	227.7	181.0	140.1	122.6	110.0	106.1	106.1
67.5°	10294.5	7907.5	2135.0	338.6	218.9	163.5	137.2	119.7	106.1	101.2	101.2
69°	9739.8	7276.9	1753.5	311.4	210.2	155.7	137.2	120.7	104.1	98.3	98.3
70°	9306.8	6781.6	1450.9	294.9	201.4	150.8	137.2	121.6	103.1	96.3	95.4
72.5°	7986.3	5294.7	805.7	250.1	167.4	137.2	134.3	122.6	98.3	88.6	87.6
75°	6127.7	3722.1	479.7	211.2	141.1	125.5	127.5	117.7	90.5	79.8	79.8
77.5°	3829.2	1709.8	357.1	165.4	114.8	109.0	110.9	104.1	81.7	73.0	73.0
80°	1307.9	771.7	269.6	127.5	82.7	84.7	91.5	87.6	73.0	66.2	65.2
82.5°	716.2	502.1	190.7	88.6	57.4	70.1	70.1	71.0	63.3	58.4	57.4
85°	389.2	261.8	117.7	53.5	40.9	51.6	49.6	53.5	51.6	47.7	46.7
87.5°	135.3	89.5	38.9	19.5	16.5	17.5	20.4	27.2	26.3	27.2	28.2
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)