

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: P510810

Luminaire Tested: **CTN-CA8-330-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510810
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-CA8-330-760-U-T4-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43174 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

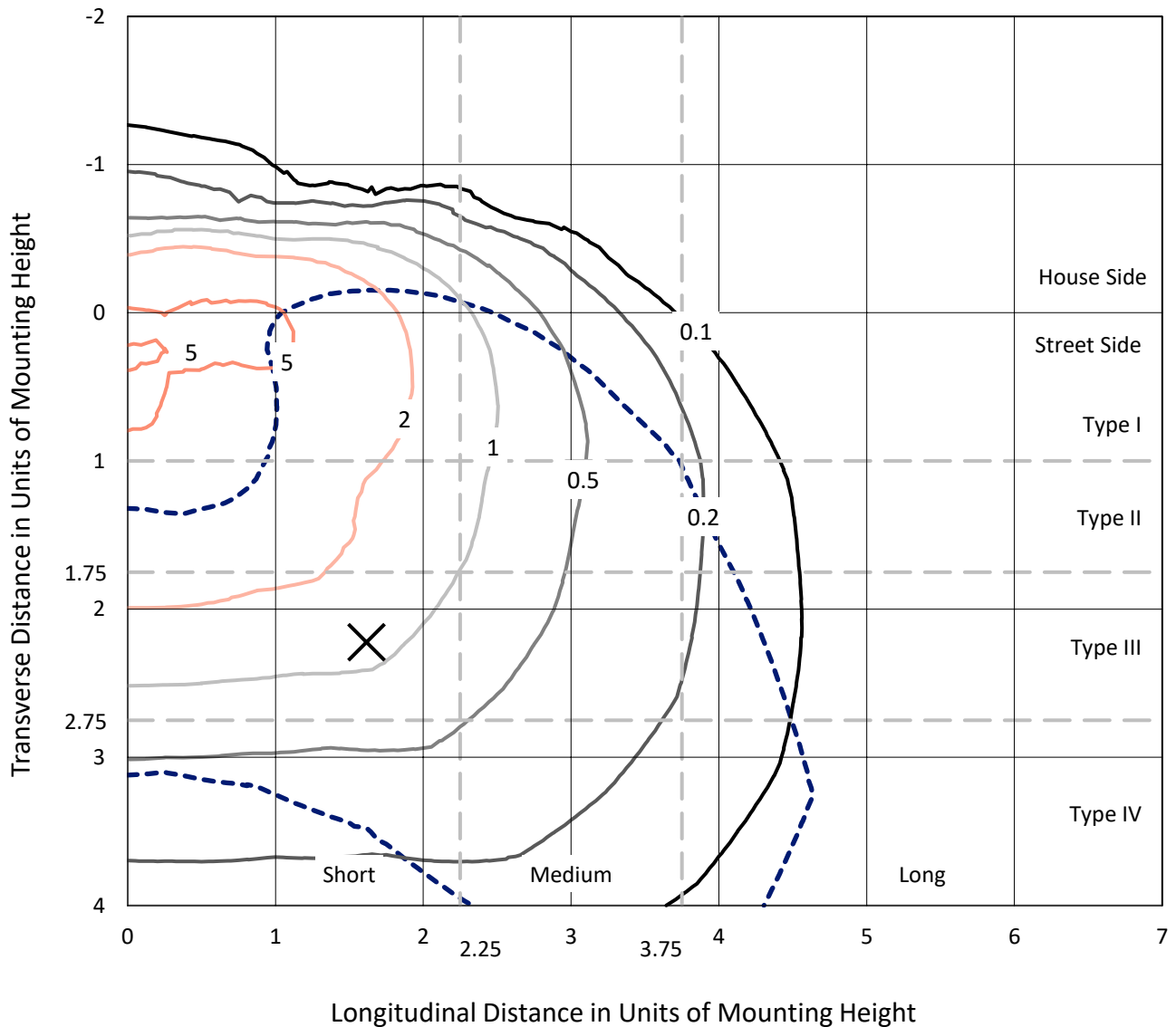
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

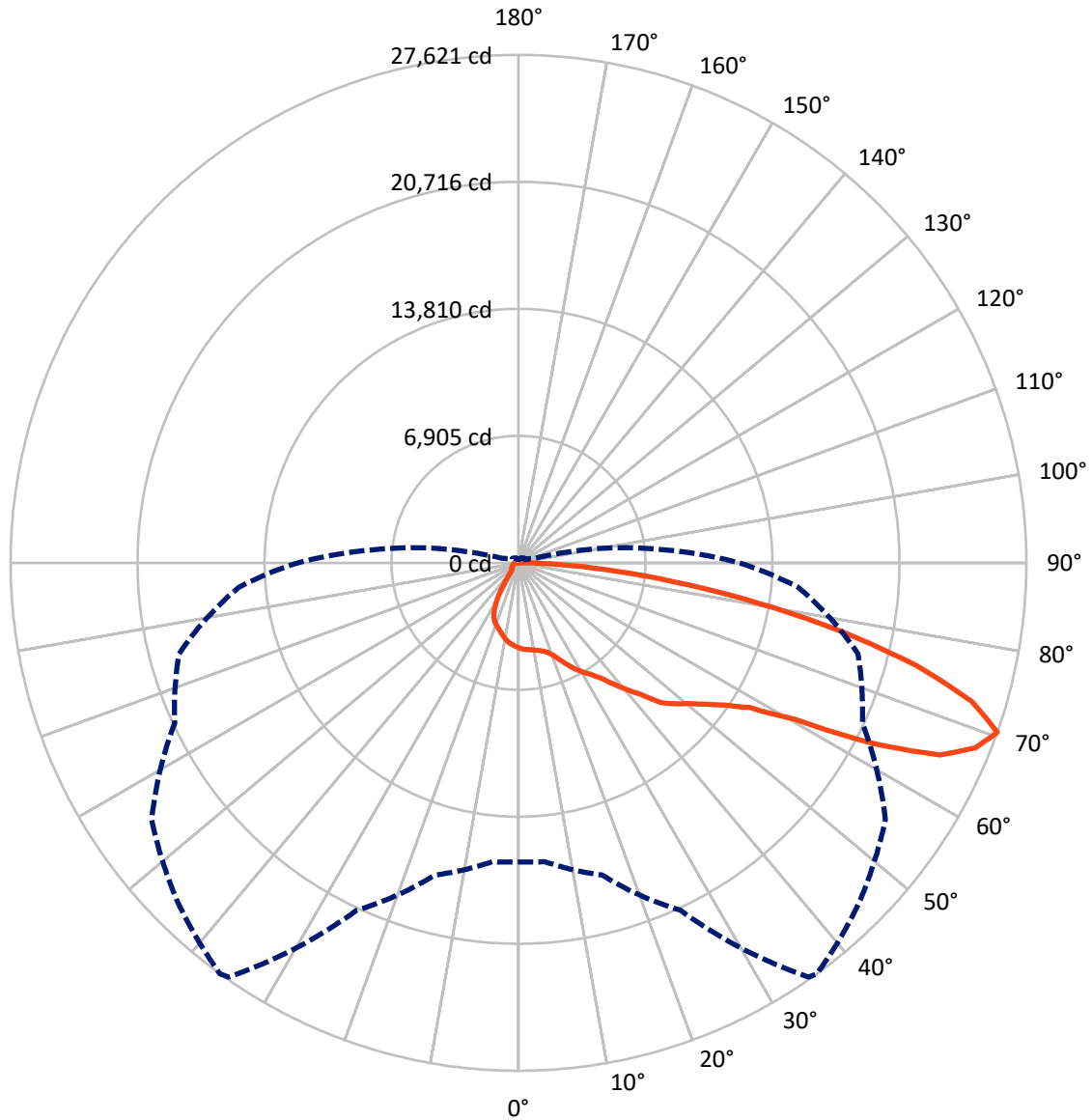
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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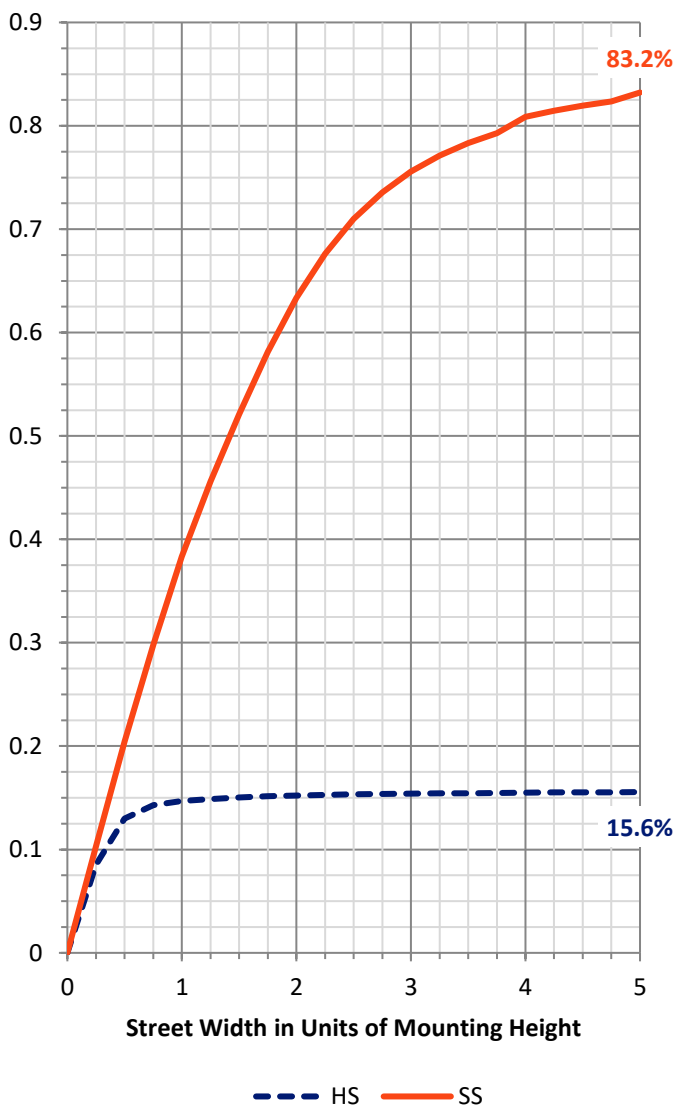
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6813.2	0.0	6813.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	36360.8	0.0	36360.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	43174.0	0.0	43174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	1.0
10°-20°	1304.7	3.0
20°-30°	2346.2	5.4
30°-40°	3712.8	8.6
40°-50°	5802.4	13.4
50°-60°	8332.2	19.3
60°-70°	11301.8	26.2
70°-80°	8364.6	19.4
80°-90°	1570.6	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°	43174.0	100.0
0°-180°	43174.0	100.0

Coefficient of Utilization

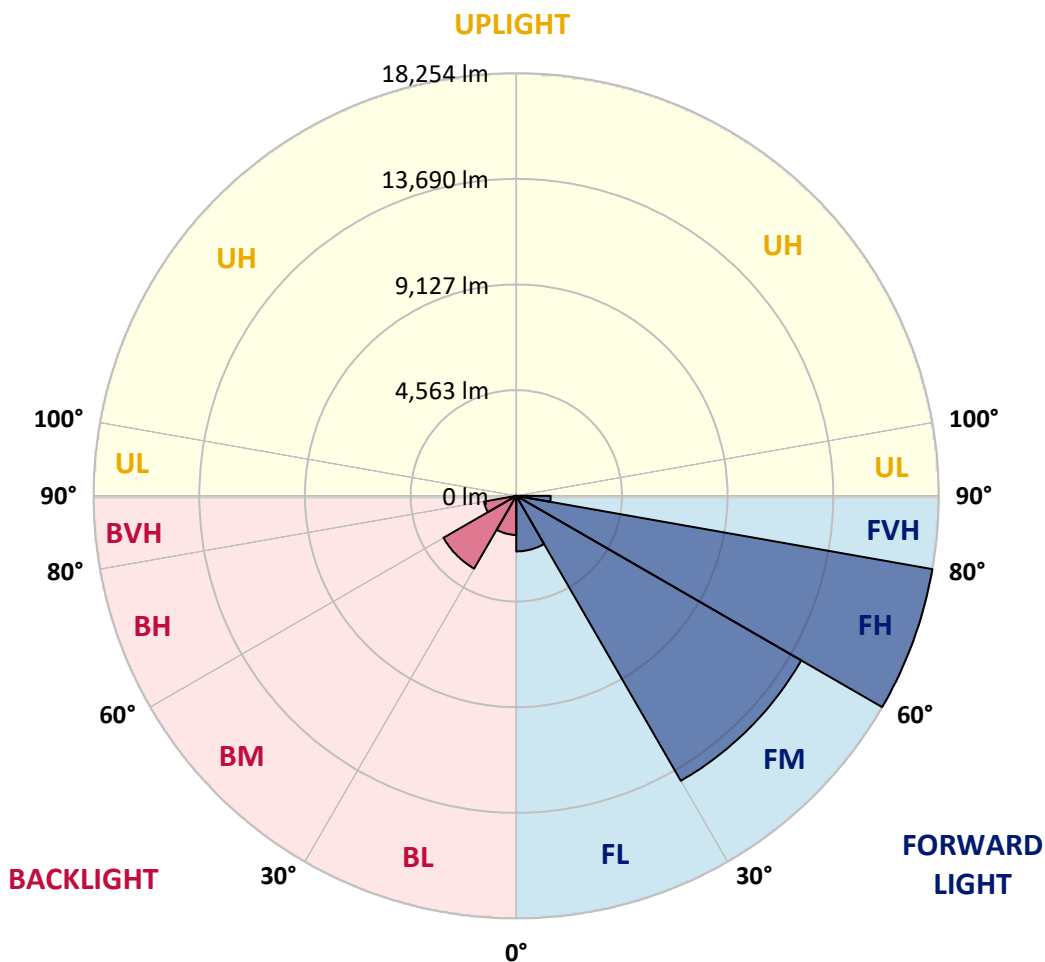


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.3	5.6			
FM (30°-60°)	14216.8	32.9			
FH (60°-80°)	18253.5	42.3			G5
FVH (80°-90°)	1489.2	3.4			G5
BL (0°-30°)	1688.3	3.9	B3/2500		
BM (30°-60°)	3630.6	8.4	B3/5000		
BH (60°-80°)	1412.9	3.3	B3/2500		G3/2500
BVH (80°-90°)	81.5	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°	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9
2.5°	4719.6	4709.6	4701.6	4704.6	4698.6	4702.6	4693.7	4682.7	4656.8	4645.8	4640.8
5°	4761.4	4758.4	4750.5	4744.5	4733.5	4729.5	4719.6	4728.5	4714.6	4678.7	4657.8
7.5°	4786.4	4785.4	4776.4	4763.4	4769.4	4774.4	4784.4	4770.4	4752.5	4735.5	4692.7
10°	4797.3	4797.3	4786.4	4793.3	4824.2	4827.2	4832.2	4841.2	4824.2	4799.3	4756.5
12.5°	4825.2	4823.2	4827.2	4850.1	4882.0	4889.0	4913.9	4913.9	4915.9	4901.0	4851.1
15°	4895.0	4895.0	4904.0	4924.9	4979.7	4983.7	5020.6	5053.5	5057.5	5035.5	4997.7
17.5°	5056.5	5052.5	5047.5	5060.5	5119.3	5121.3	5185.1	5226.9	5237.9	5261.8	5255.8
20°	5363.5	5359.5	5358.5	5359.5	5355.5	5349.5	5412.3	5457.2	5513.0	5554.8	5575.8
22.5°	5803.0	5794.1	5794.1	5745.2	5707.3	5713.3	5723.3	5748.2	5822.0	5895.7	5974.5
25°	6276.5	6270.5	6275.5	6150.9	6100.1	6120.0	6107.0	6145.9	6242.6	6306.4	6390.1
27.5°	6663.2	6672.2	6644.3	6547.6	6514.7	6529.7	6499.8	6611.4	6718.0	6829.7	6956.3
30°	7144.6	7096.8	7028.0	6910.4	6898.5	6900.4	6898.5	7077.9	7299.1	7458.6	7634.0
32.5°	7773.6	7781.6	7627.1	7350.0	7248.3	7234.4	7274.2	7537.4	7836.4	8190.2	8421.5
35°	8409.5	8422.5	8309.8	8020.8	7730.7	7686.9	7628.1	7969.9	8401.5	9111.2	9460.1
37.5°	9084.3	9130.2	8996.6	8738.4	8394.6	8353.7	8075.6	8411.5	9049.4	10201.7	10659.2
40°	9987.4	9938.5	9777.0	9449.1	9129.2	9063.4	8740.4	8916.9	9882.7	11567.2	11899.1
42.5°	10653.2	10639.2	10502.7	10178.7	9856.8	9804.0	9543.8	9735.2	10932.3	12951.7	13100.2
45°	11181.5	11267.2	11264.2	11060.8	10879.4	10849.5	10696.0	10978.1	12201.1	14258.4	14185.6
47.5°	11650.9	11703.7	11619.0	11530.3	11445.6	11455.6	11569.2	12149.3	13497.9	15399.7	15077.7
50°	12419.4	12351.6	11971.9	11904.1	12023.7	12028.7	12374.6	13267.6	14926.2	16386.4	15833.2
52.5°	13444.1	13370.3	12589.8	12474.2	12757.3	12778.2	13353.4	14382.0	16399.4	17329.4	16584.8
55°	14969.1	14797.6	13961.4	13443.1	13572.6	13657.4	14354.1	15453.5	17552.6	18160.6	17153.9
57.5°	16841.9	16966.5	16537.9	15366.8	14827.5	14859.4	15499.3	16479.1	18570.3	18888.3	17486.8
60°	18821.5	18791.6	18971.0	18477.6	17445.0	17273.5	16947.6	17525.7	19358.7	19501.3	17829.7
62.5°	19905.9	20080.4	20678.4	20777.1	21709.0	21618.3	19396.6	18823.5	20269.7	19886.0	17923.4
65°	19900.0	19975.7	21089.1	22313.1	25224.5	25198.6	24166.0	20700.3	20948.5	20091.3	17736.0
67.5°	18614.2	18731.8	20033.5	22424.7	26849.2	26818.3	26104.7	23338.7	21161.8	19844.1	16861.9
70°	16269.8	16309.7	17579.5	20852.8	27502.1	27620.7	26171.5	24351.4	20631.6	19109.5	15268.1
72.5°	13422.1	13339.4	14581.3	17807.8	25839.5	25768.8	25065.1	23142.4	19738.5	17683.2	12452.3
75°	9882.7	10112.9	11227.3	14298.3	22123.7	22382.8	22694.8	21292.4	17530.7	14573.4	8610.9
77.5°	6525.7	6818.7	7945.0	10721.0	17514.7	17917.4	18725.8	18109.8	14261.4	10453.8	4100.6
80°	3372.0	3593.3	4606.9	7113.7	12556.0	13137.1	14619.2	13716.2	10110.9	4726.5	918.0
82.5°	1275.8	1246.9	2064.3	4071.7	8050.7	8579.0	9656.4	8225.1	3598.2	830.3	426.6
85°	560.2	593.1	855.2	1856.9	4603.0	4671.7	5470.1	3206.5	527.3	396.7	290.1
87.5°	242.2	278.1	358.8	534.3	1552.9	1793.1	2218.7	1018.7	159.5	137.6	145.5
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°	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9	4625.9
2.5°	4631.9	4625.9	4615.9	4591.0	4550.1	4545.1	4541.2	4537.2	4529.2	4533.2	4556.1
5°	4641.8	4630.9	4595.0	4559.1	4523.2	4491.3	4452.4	4437.5	4417.6	4404.6	4428.5
7.5°	4675.7	4652.8	4600.0	4551.1	4453.4	4406.6	4356.8	4298.0	4256.1	4229.2	4253.1
10°	4732.5	4703.6	4637.8	4537.2	4422.5	4294.0	4206.3	4108.6	4028.8	4006.9	4028.8
12.5°	4825.2	4782.4	4705.6	4569.1	4365.7	4197.3	4030.8	3902.2	3773.7	3736.8	3747.7
15°	4975.7	4941.8	4824.2	4635.8	4366.7	4109.6	3862.4	3655.1	3486.6	3427.8	3423.8
17.5°	5216.9	5181.1	5045.5	4768.4	4402.6	4040.8	3696.9	3380.9	3125.8	2996.2	2975.3
20°	5562.8	5513.0	5307.7	4963.8	4480.4	4010.9	3543.4	3118.8	2722.1	2478.9	2442.0
22.5°	5947.6	5894.7	5591.7	5114.3	4536.2	3952.1	3396.9	2828.8	2306.5	2009.4	1967.6
25°	6426.0	6310.4	5863.8	5256.8	4523.2	3828.5	3158.7	2435.0	1868.9	1611.7	1583.8
27.5°	6898.5	6751.9	6140.9	5331.6	4466.4	3632.1	2809.8	1974.5	1463.2	1280.8	1257.9
30°	7484.5	7201.5	6387.1	5366.5	4322.9	3338.1	2342.3	1501.1	1095.4	969.8	947.9
32.5°	8181.3	7752.7	6618.4	5327.6	4083.7	2889.6	1821.0	1099.4	814.3	735.6	734.6
35°	9100.3	8428.4	6872.5	5200.0	3716.9	2406.1	1276.8	751.5	634.9	608.0	613.0
37.5°	10174.7	9343.5	7130.7	4990.7	3302.2	1841.0	851.2	579.1	558.2	559.2	560.2
40°	11308.0	10354.2	7478.6	4696.6	2798.9	1332.6	613.0	520.3	519.3	529.3	532.3
42.5°	12390.5	11335.9	7907.2	4304.9	2271.6	881.1	531.3	496.4	483.4	487.4	490.4
45°	13396.2	12178.2	8272.0	3923.2	1706.4	628.9	521.3	468.5	448.5	446.5	448.5
47.5°	14206.6	12853.0	8494.2	3474.6	1216.0	522.3	500.4	442.6	414.6	408.7	405.7
50°	14823.5	13354.3	8575.0	2966.3	822.3	498.4	472.5	412.7	378.8	379.8	379.8
52.5°	15425.6	13809.9	8481.3	2454.0	605.0	477.4	453.5	388.7	352.8	371.8	376.8
55°	15859.2	14001.2	8208.2	1899.8	504.4	451.5	432.6	360.8	335.9	366.8	376.8
57.5°	16112.3	14151.7	7706.8	1371.5	462.5	426.6	405.7	334.9	312.0	320.0	324.9
60°	16269.8	13941.4	7044.0	937.9	440.6	406.7	378.8	318.0	287.1	268.1	265.1
62.5°	16183.1	13415.1	6170.8	644.9	417.6	384.7	355.8	302.0	261.1	236.2	234.2
65°	15476.4	12441.3	4737.5	522.3	403.7	374.8	341.9	287.1	243.2	219.3	216.3
67.5°	14165.7	10691.1	2767.0	464.5	397.7	364.8	330.9	273.1	233.2	207.3	203.3
70°	12011.7	8041.7	927.0	414.6	396.7	363.8	321.9	263.1	222.3	195.4	191.4
72.5°	8665.7	4852.1	451.5	364.8	370.8	348.9	315.0	255.2	215.3	181.4	174.4
75°	4924.9	1579.8	407.7	315.0	344.9	332.9	311.0	256.2	218.3	164.5	156.5
77.5°	1401.4	461.5	393.7	268.1	325.9	343.9	291.0	231.2	223.3	152.5	142.5
80°	473.5	410.7	379.8	208.3	263.1	284.1	252.2	203.3	225.3	138.5	128.6
82.5°	379.8	412.7	319.0	166.5	200.3	215.3	200.3	182.4	182.4	123.6	115.6
85°	304.0	382.7	202.3	132.6	149.5	165.5	141.5	136.6	127.6	103.7	100.7
87.5°	176.4	119.6	83.7	67.8	62.8	63.8	54.8	65.8	80.7	70.8	69.8
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)