

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: P510790

Luminaire Tested: **CST-CA8-330-740-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510790  
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: STREETWORKS  
Catalog Number: CST-CA8-330-740-U-T4-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43315 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

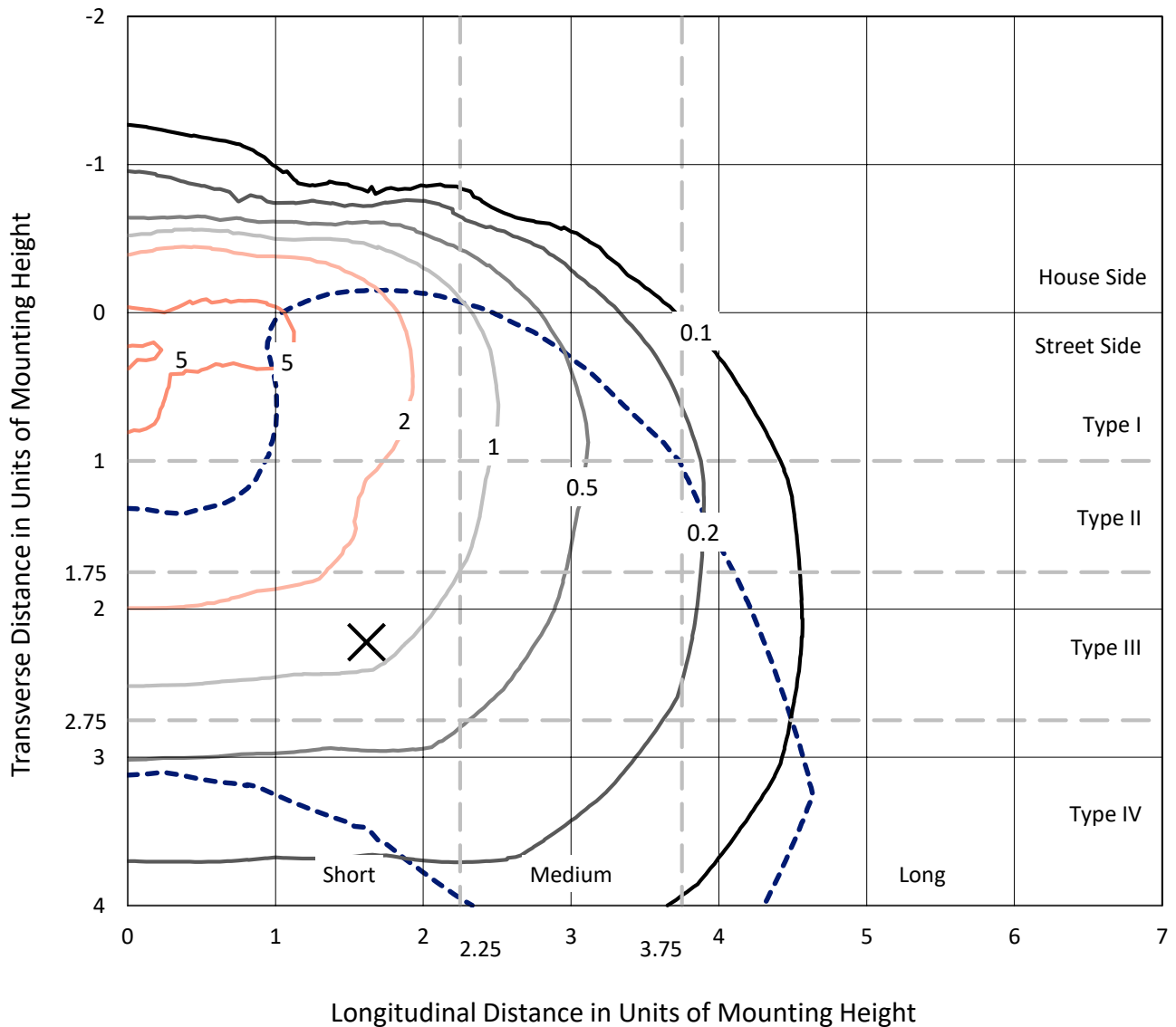
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

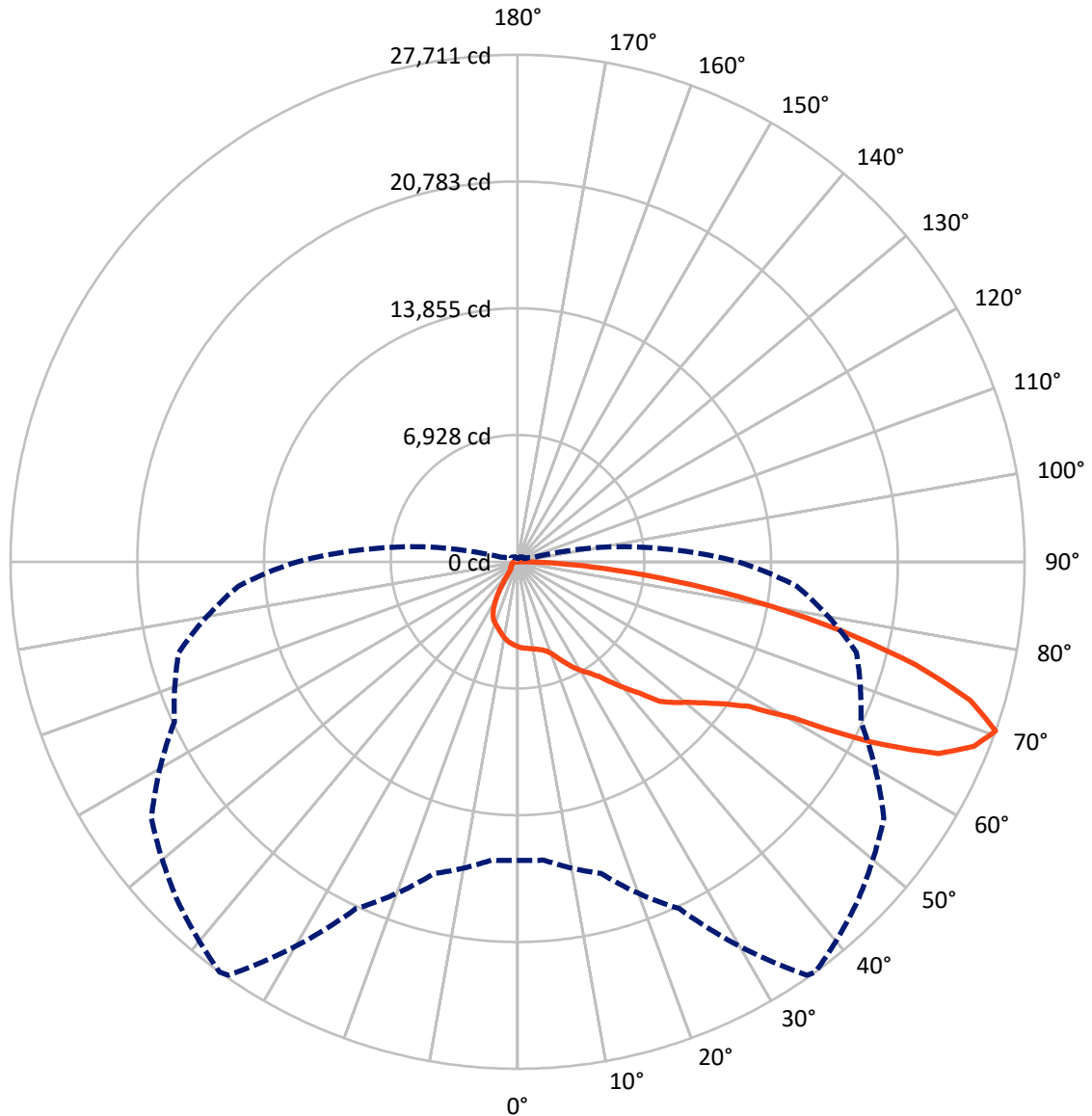
✕ Max cd  
 - - - 1/2 Max cd



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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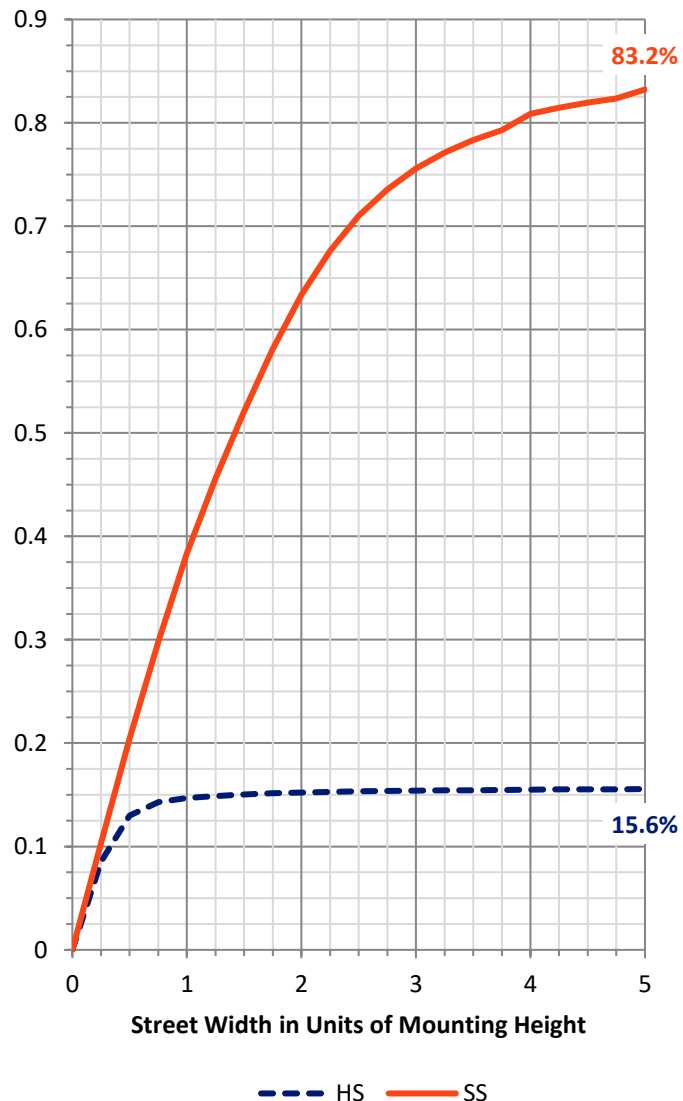
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6835.4	0.0	6835.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	36479.6	0.0	36479.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	43315.0	0.0	43315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.2	1.0
10°-20°	1308.9	3.0
20°-30°	2353.9	5.4
30°-40°	3724.9	8.6
40°-50°	5821.4	13.4
50°-60°	8359.4	19.3
60°-70°	11338.7	26.2
70°-80°	8391.9	19.4
80°-90°	1575.7	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°	43315.0	100.0
0°-180°	43315.0	100.0

**Coefficient of Utilization**

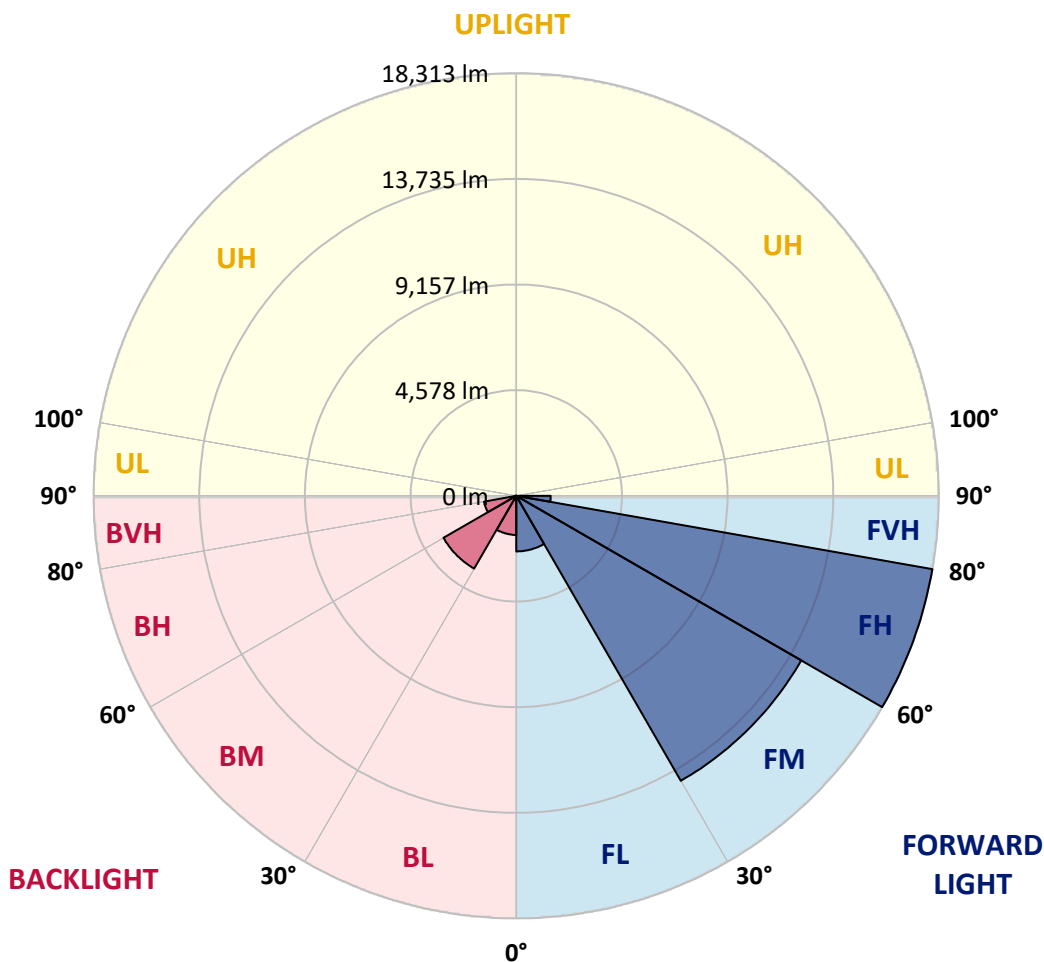


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.2	5.6			
FM (30°-60°)	14263.3	32.9			
FH (60°-80°)	18313.1	42.3			G5
FVH (80°-90°)	1494.0	3.4			G5
BL (0°-30°)	1693.8	3.9	B3/2500		
BM (30°-60°)	3642.5	8.4	B3/5000		
BH (60°-80°)	1417.5	3.3	B3/2500		G3/2500
BVH (80°-90°)	81.7	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°	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0
2.5°	4735.0	4725.0	4717.0	4720.0	4714.0	4718.0	4709.0	4698.0	4672.0	4661.0	4656.0
5°	4777.0	4774.0	4766.0	4760.0	4749.0	4745.0	4735.0	4744.0	4730.0	4694.0	4673.0
7.5°	4802.0	4801.0	4792.0	4779.0	4785.0	4790.0	4800.0	4786.0	4768.0	4751.0	4708.0
10°	4813.0	4813.0	4802.0	4809.0	4840.0	4843.0	4848.0	4857.0	4840.0	4815.0	4772.0
12.5°	4841.0	4839.0	4843.0	4866.0	4898.0	4905.0	4930.0	4930.0	4932.0	4917.0	4867.0
15°	4911.0	4911.0	4920.0	4941.0	4996.0	5000.0	5037.0	5070.0	5074.0	5052.0	5014.0
17.5°	5073.0	5069.0	5064.0	5077.0	5136.0	5138.0	5202.0	5244.0	5255.0	5279.0	5273.0
20°	5381.0	5377.0	5376.0	5377.0	5373.0	5367.0	5430.0	5475.0	5531.0	5573.0	5594.0
22.5°	5822.0	5813.0	5813.0	5764.0	5726.0	5732.0	5742.0	5767.0	5841.0	5915.0	5994.0
25°	6297.0	6291.0	6296.0	6171.0	6120.0	6140.0	6127.0	6166.0	6263.0	6327.0	6411.0
27.5°	6685.0	6694.0	6666.0	6569.0	6536.0	6551.0	6521.0	6633.0	6740.0	6852.0	6979.0
30°	7168.0	7120.0	7051.0	6933.0	6921.0	6923.0	6921.0	7101.0	7323.0	7483.0	7659.0
32.5°	7799.0	7807.0	7652.0	7374.0	7272.0	7258.0	7298.0	7562.0	7862.0	8217.0	8449.0
35°	8437.0	8450.0	8337.0	8047.0	7756.0	7712.0	7653.0	7996.0	8429.0	9141.0	9491.0
37.5°	9114.0	9160.0	9026.0	8767.0	8422.0	8381.0	8102.0	8439.0	9079.0	10235.0	10694.0
40°	10020.0	9971.0	9809.0	9480.0	9159.0	9093.0	8769.0	8946.0	9915.0	11605.0	11938.0
42.5°	10688.0	10674.0	10537.0	10212.0	9889.0	9836.0	9575.0	9767.0	10968.0	12994.0	13143.0
45°	11218.0	11304.0	11301.0	11097.0	10915.0	10885.0	10731.0	11014.0	12241.0	14305.0	14232.0
47.5°	11689.0	11742.0	11657.0	11568.0	11483.0	11493.0	11607.0	12189.0	13542.0	15450.0	15127.0
50°	12460.0	12392.0	12011.0	11943.0	12063.0	12068.0	12415.0	13311.0	14975.0	16440.0	15885.0
52.5°	13488.0	13414.0	12631.0	12515.0	12799.0	12820.0	13397.0	14429.0	16453.0	17385.9	16639.0
55°	15018.0	14846.0	14007.0	13487.0	13617.0	13702.0	14401.0	15504.0	17609.9	18219.9	17209.9
57.5°	16897.0	17022.0	16592.0	15417.0	14876.0	14908.0	15550.0	16533.0	18630.9	18949.9	17543.9
60°	18882.9	18852.9	19032.9	18537.9	17501.9	17329.9	17003.0	17582.9	19421.9	19564.9	17887.9
62.5°	19970.9	20145.9	20745.9	20844.9	21779.9	21688.9	19459.9	18884.9	20335.9	19950.9	17981.9
65°	19964.9	20040.9	21157.9	22385.9	25306.9	25280.9	24244.9	20767.9	21016.9	20156.9	17793.9
67.5°	18674.9	18792.9	20098.9	22497.9	26936.9	26905.9	26189.9	23414.9	21230.9	19908.9	16917.0
70°	16323.0	16363.0	17636.9	20920.9	27591.9	27710.9	26256.9	24430.9	20698.9	19171.9	15318.0
72.5°	13466.0	13383.0	14629.0	17865.9	25923.9	25852.9	25146.9	23217.9	19802.9	17740.9	12493.0
75°	9915.0	10146.0	11264.0	14345.0	22195.9	22455.9	22768.9	21361.9	17587.9	14621.0	8639.0
77.5°	6547.0	6841.0	7971.0	10756.0	17571.9	17975.9	18786.9	18168.9	14308.0	10488.0	4114.0
80°	3383.0	3605.0	4622.0	7137.0	12597.0	13180.0	14667.0	13761.0	10144.0	4742.0	921.0
82.5°	1280.0	1251.0	2071.0	4085.0	8077.0	8607.0	9688.0	8252.0	3610.0	833.0	428.0
85°	562.0	595.0	858.0	1863.0	4618.0	4687.0	5488.0	3217.0	529.0	398.0	291.0
87.5°	243.0	279.0	360.0	536.0	1558.0	1799.0	2226.0	1022.0	160.0	138.0	146.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0
2.5°	4647.0	4641.0	4631.0	4606.0	4565.0	4560.0	4556.0	4552.0	4544.0	4548.0	4571.0
5°	4657.0	4646.0	4610.0	4574.0	4538.0	4506.0	4467.0	4452.0	4432.0	4419.0	4443.0
7.5°	4691.0	4668.0	4615.0	4566.0	4468.0	4421.0	4371.0	4312.0	4270.0	4243.0	4267.0
10°	4748.0	4719.0	4653.0	4552.0	4437.0	4308.0	4220.0	4122.0	4042.0	4020.0	4042.0
12.5°	4841.0	4798.0	4721.0	4584.0	4380.0	4211.0	4044.0	3915.0	3786.0	3749.0	3760.0
15°	4992.0	4958.0	4840.0	4651.0	4381.0	4123.0	3875.0	3667.0	3498.0	3439.0	3435.0
17.5°	5234.0	5198.0	5062.0	4784.0	4417.0	4054.0	3709.0	3392.0	3136.0	3006.0	2985.0
20°	5581.0	5531.0	5325.0	4980.0	4495.0	4024.0	3555.0	3129.0	2731.0	2487.0	2450.0
22.5°	5967.0	5914.0	5610.0	5131.0	4551.0	3965.0	3408.0	2838.0	2314.0	2016.0	1974.0
25°	6447.0	6331.0	5883.0	5274.0	4538.0	3841.0	3169.0	2443.0	1875.0	1617.0	1589.0
27.5°	6921.0	6774.0	6161.0	5349.0	4481.0	3644.0	2819.0	1981.0	1468.0	1285.0	1262.0
30°	7509.0	7225.0	6408.0	5384.0	4337.0	3349.0	2350.0	1506.0	1099.0	973.0	951.0
32.5°	8208.0	7778.0	6640.0	5345.0	4097.0	2899.0	1827.0	1103.0	817.0	738.0	737.0
35°	9130.0	8456.0	6895.0	5217.0	3729.0	2414.0	1281.0	754.0	637.0	610.0	615.0
37.5°	10208.0	9374.0	7154.0	5007.0	3313.0	1847.0	854.0	581.0	560.0	561.0	562.0
40°	11345.0	10388.0	7503.0	4712.0	2808.0	1337.0	615.0	522.0	521.0	531.0	534.0
42.5°	12431.0	11373.0	7933.0	4319.0	2279.0	884.0	533.0	498.0	485.0	489.0	492.0
45°	13440.0	12218.0	8299.0	3936.0	1712.0	631.0	523.0	470.0	450.0	448.0	450.0
47.5°	14253.0	12895.0	8522.0	3486.0	1220.0	524.0	502.0	444.0	416.0	410.0	407.0
50°	14872.0	13398.0	8603.0	2976.0	825.0	500.0	474.0	414.0	380.0	381.0	381.0
52.5°	15476.0	13855.0	8509.0	2462.0	607.0	479.0	455.0	390.0	354.0	373.0	378.0
55°	15911.0	14047.0	8235.0	1906.0	506.0	453.0	434.0	362.0	337.0	368.0	378.0
57.5°	16165.0	14198.0	7732.0	1376.0	464.0	428.0	407.0	336.0	313.0	321.0	326.0
60°	16323.0	13987.0	7067.0	941.0	442.0	408.0	380.0	319.0	288.0	269.0	266.0
62.5°	16236.0	13459.0	6191.0	647.0	419.0	386.0	357.0	303.0	262.0	237.0	235.0
65°	15527.0	12482.0	4753.0	524.0	405.0	376.0	343.0	288.0	244.0	220.0	217.0
67.5°	14212.0	10726.0	2776.0	466.0	399.0	366.0	332.0	274.0	234.0	208.0	204.0
70°	12051.0	8068.0	930.0	416.0	398.0	365.0	323.0	264.0	223.0	196.0	192.0
72.5°	8694.0	4868.0	453.0	366.0	372.0	350.0	316.0	256.0	216.0	182.0	175.0
75°	4941.0	1585.0	409.0	316.0	346.0	334.0	312.0	257.0	219.0	165.0	157.0
77.5°	1406.0	463.0	395.0	269.0	327.0	345.0	292.0	232.0	224.0	153.0	143.0
80°	475.0	412.0	381.0	209.0	264.0	285.0	253.0	204.0	226.0	139.0	129.0
82.5°	381.0	414.0	320.0	167.0	201.0	216.0	201.0	183.0	183.0	124.0	116.0
85°	305.0	384.0	203.0	133.0	150.0	166.0	142.0	137.0	128.0	104.0	101.0
87.5°	177.0	120.0	84.0	68.0	63.0	64.0	55.0	66.0	81.0	71.0	70.0
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)