

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: P510791

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

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)  
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  
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: 48297 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

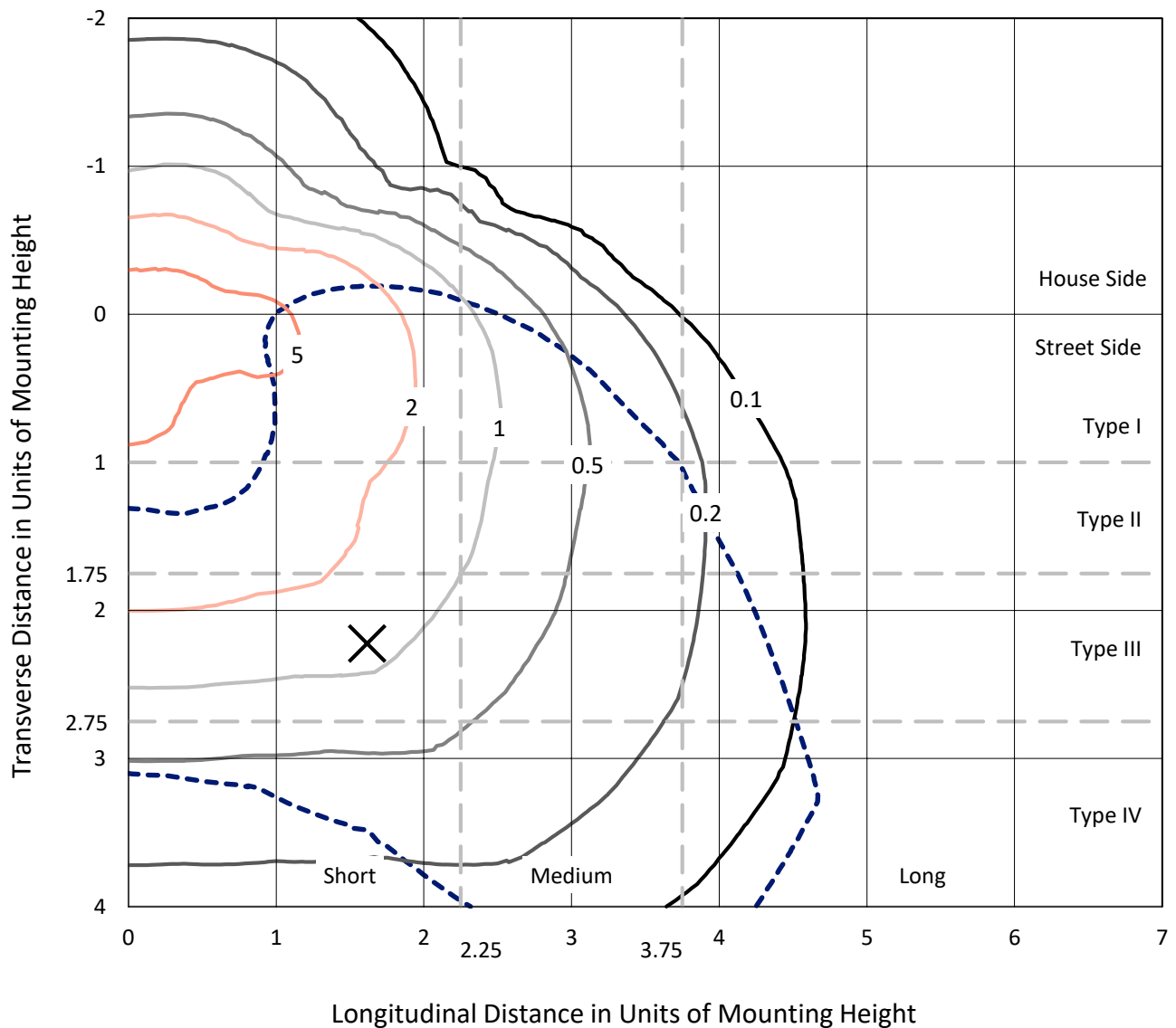
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

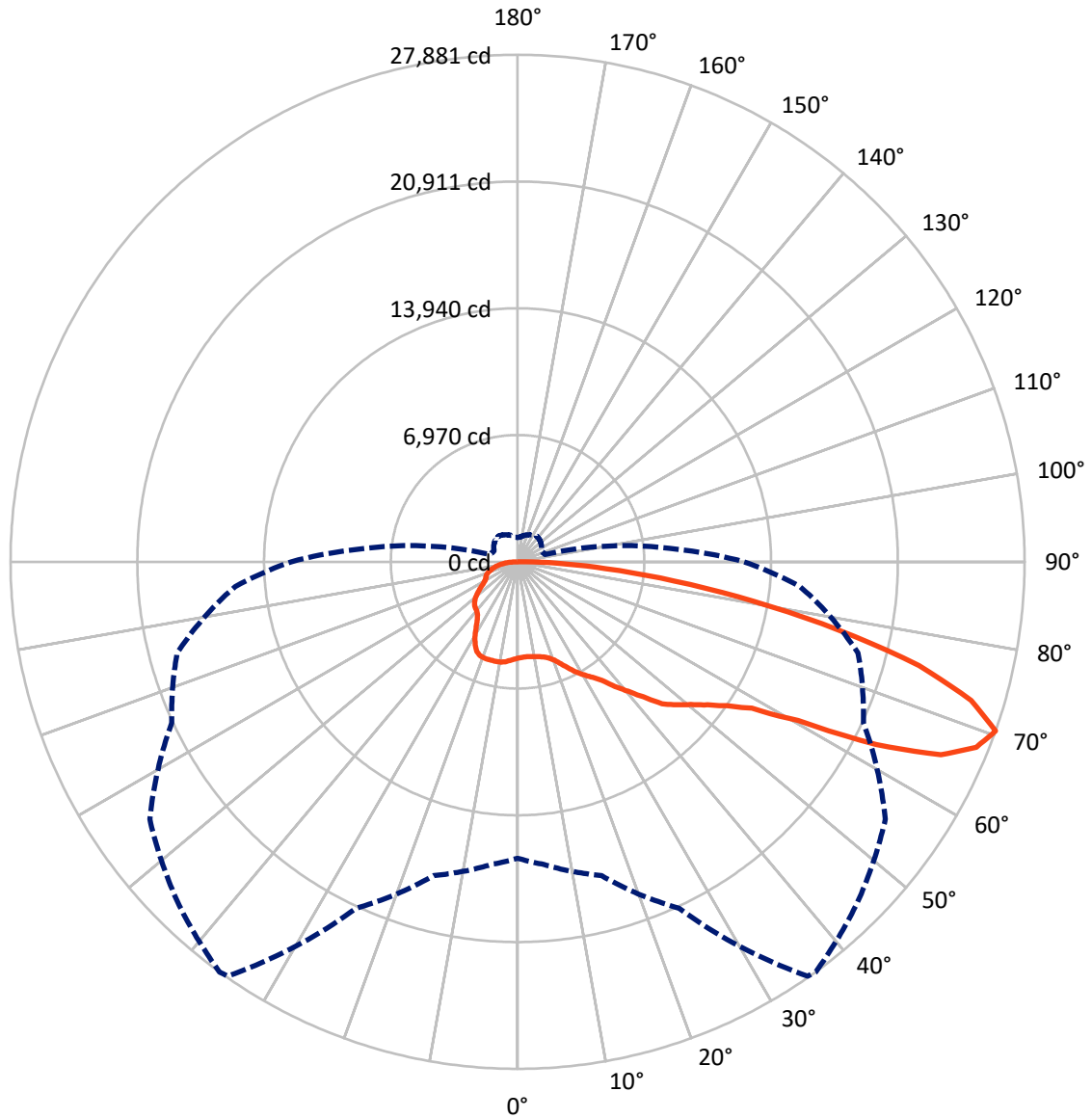
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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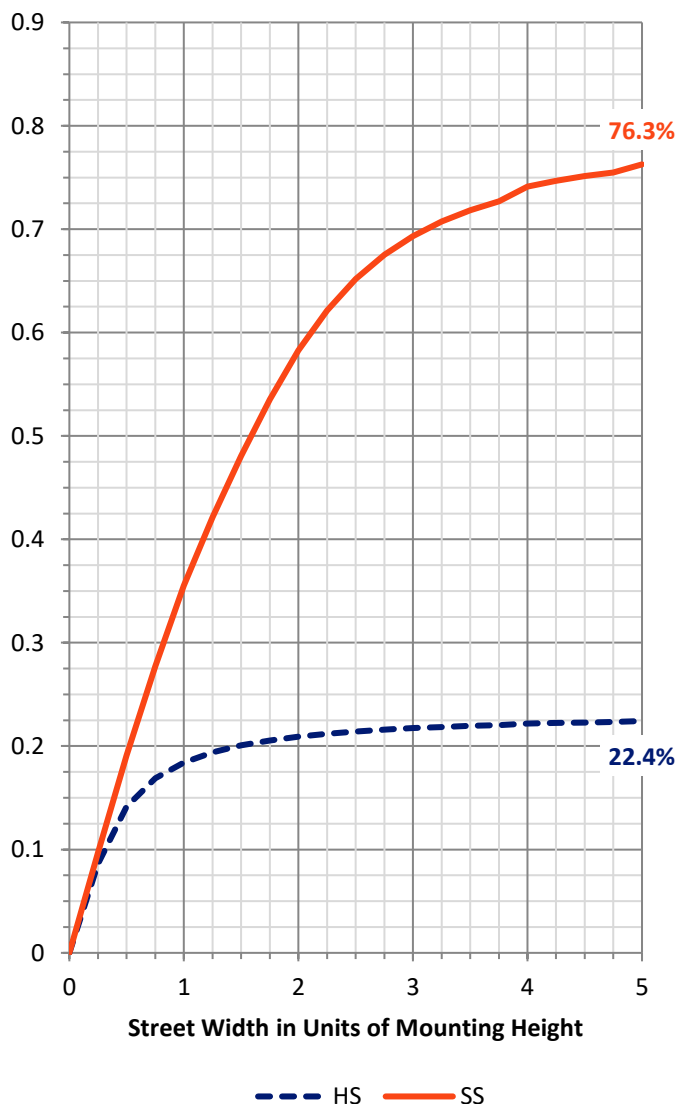
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11004.2	0.0	11004.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	37292.8	0.0	37292.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	48297.0	0.0	48297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.5	1.1
10°-20°	1584.4	3.3
20°-30°	2857.9	5.9
30°-40°	4426.4	9.2
40°-50°	6723.7	13.9
50°-60°	9319.4	19.3
60°-70°	12118.5	25.1
70°-80°	8949.4	18.5
80°-90°	1804.9	3.7
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°	48297.0	100.0
0°-180°	48297.0	100.0

**Coefficient of Utilization**

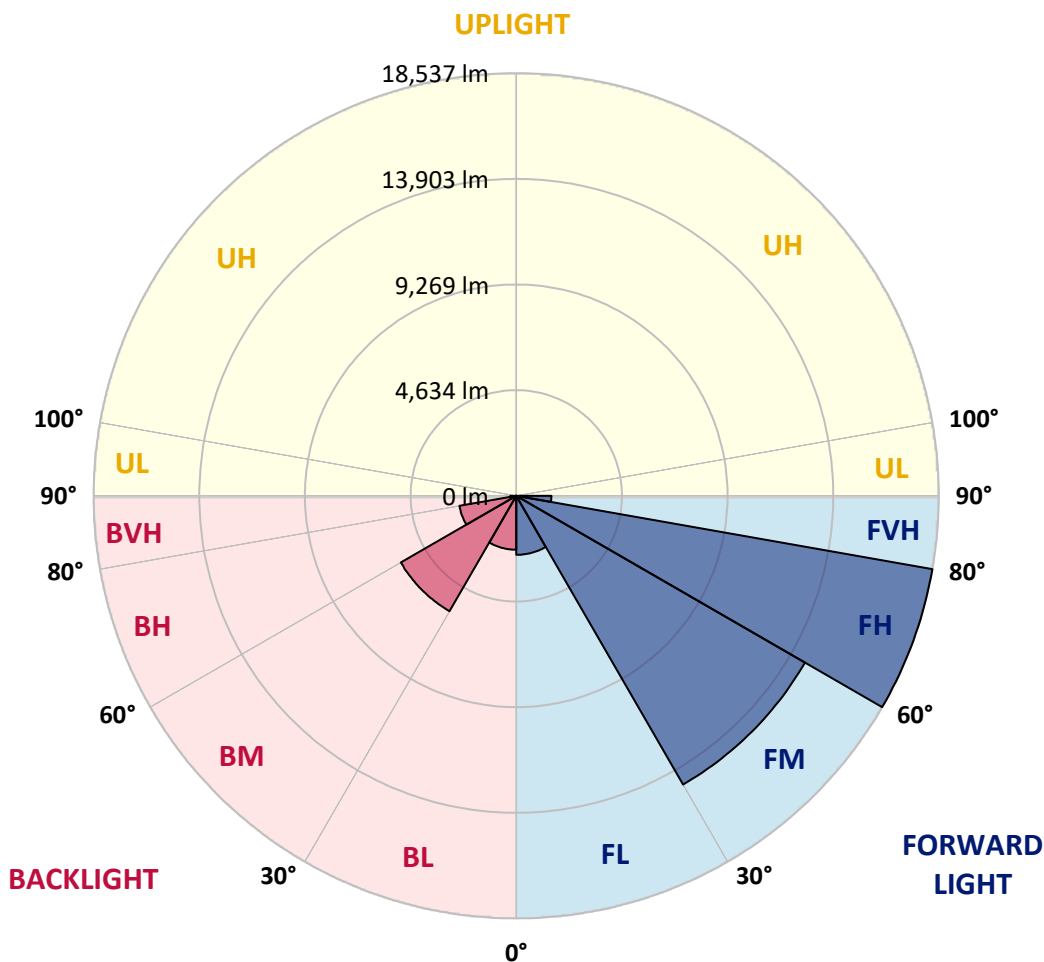


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2589.2	5.4			
FM (30°-60°)	14624.2	30.3			
FH (60°-80°)	18537.5	38.4			G5
FVH (80°-90°)	1542.0	3.2			G5
BL (0°-30°)	2365.6	4.9	B3/2500		
BM (30°-60°)	5845.3	12.1	B4/8500		
BH (60°-80°)	2530.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	262.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
2.5°	5258.0	5251.0	5247.0	5255.0	5258.0	5259.0	5261.0	5259.0	5254.0	5272.0	5294.0
5°	5259.0	5255.0	5247.0	5240.0	5240.0	5240.0	5241.0	5264.0	5274.0	5272.0	5299.0
7.5°	5267.0	5264.0	5249.0	5244.0	5256.0	5260.0	5280.0	5273.0	5284.0	5302.0	5325.0
10°	5268.0	5264.0	5251.0	5262.0	5296.0	5302.0	5311.0	5331.0	5335.0	5357.0	5380.0
12.5°	5278.0	5278.0	5283.0	5307.0	5343.0	5350.0	5384.0	5400.0	5424.0	5435.0	5463.0
15°	5331.0	5330.0	5342.0	5369.0	5427.0	5431.0	5473.0	5521.0	5539.0	5566.0	5611.0
17.5°	5457.0	5463.0	5464.0	5484.0	5553.0	5555.0	5624.0	5669.0	5710.0	5758.0	5861.0
20°	5756.0	5745.0	5733.0	5733.0	5760.0	5774.0	5827.0	5899.0	5983.0	6068.0	6189.0
22.5°	6132.0	6154.0	6110.0	6087.0	6100.0	6084.0	6124.0	6182.0	6280.0	6407.0	6560.0
25°	6581.0	6583.0	6580.0	6487.0	6458.0	6468.0	6501.0	6555.0	6685.0	6786.0	7007.9
27.5°	7018.9	7009.9	6977.9	6879.9	6852.0	6865.9	6864.9	7013.9	7146.9	7275.9	7536.9
30°	7416.9	7440.9	7383.9	7218.9	7221.9	7219.9	7265.9	7457.9	7700.9	7940.9	8208.9
32.5°	8118.9	8045.9	7968.9	7642.9	7582.9	7575.9	7602.9	7888.9	8248.9	8653.9	8975.9
35°	8779.9	8761.9	8685.9	8354.9	8007.9	8001.9	7964.9	8312.9	8818.9	9568.9	9970.9
37.5°	9455.9	9429.9	9354.9	9072.9	8727.9	8694.9	8383.9	8764.9	9448.9	10638.9	11211.9
40°	10261.9	10245.9	10129.9	9768.9	9414.9	9364.9	9041.9	9239.9	10243.9	12063.9	12467.9
42.5°	10968.9	10965.9	10832.9	10497.9	10196.9	10146.9	9871.9	10077.9	11348.9	13459.9	13697.9
45°	11487.9	11566.9	11572.9	11381.9	11173.9	11129.9	11056.9	11340.9	12626.9	14726.9	14691.9
47.5°	11925.9	11993.9	11922.9	11824.9	11753.9	11756.9	11869.9	12433.9	13888.9	15830.9	15558.9
50°	12657.9	12615.9	12246.9	12188.9	12278.9	12331.9	12659.9	13613.9	15333.9	16866.9	16336.9
52.5°	13713.9	13552.9	12828.9	12710.9	13051.9	13071.9	13593.9	14668.9	16777.9	17755.9	17048.9
55°	15158.9	15025.9	14207.9	13662.9	13834.9	13969.9	14704.9	15749.9	17956.9	18591.9	17596.9
57.5°	17294.9	17304.9	16637.9	15621.9	15036.9	15180.9	15754.9	16800.9	18930.9	19291.9	17938.9
60°	19006.9	19323.9	19124.9	18660.9	17820.9	17722.9	17285.9	17895.9	19762.9	19886.9	18265.9
62.5°	20193.9	20337.9	21021.8	21119.8	22079.8	22120.8	20027.9	19178.9	20676.8	20276.9	18334.9
65°	20133.9	20222.9	21303.8	22619.8	25455.8	25582.8	24357.8	21119.8	21302.8	20450.9	18133.9
67.5°	18731.9	18865.9	20239.9	22699.8	27254.8	27206.8	26429.8	23821.8	21508.8	20171.9	17175.9
70°	16296.9	16709.9	17863.9	21012.8	27816.8	27880.8	26448.8	24684.8	20977.8	19382.9	15578.9
72.5°	13431.9	13561.9	14651.9	18175.9	26173.8	26079.8	25364.8	23545.8	20017.9	17955.9	12783.9
75°	10214.9	10214.9	11534.9	14484.9	22476.8	22806.8	23084.8	21325.8	17733.9	14634.9	8704.9
77.5°	6781.0	7023.9	8086.9	10884.9	17791.9	18035.9	18995.9	18177.9	14519.9	10731.9	3976.0
80°	3597.0	3627.0	4767.0	7232.9	12725.9	13185.9	14505.9	14019.9	10443.9	5028.0	1005.0
82.5°	1258.0	1373.0	2096.0	4192.0	8384.9	8671.9	9622.9	8330.9	3689.0	1113.0	556.0
85°	625.0	647.0	923.0	1996.0	4721.0	4860.0	5622.0	3245.0	594.0	486.0	378.0
87.5°	301.0	308.0	354.0	714.0	2052.0	2147.0	2273.0	1056.0	220.0	185.0	164.0
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°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
2.5°	5299.0	5308.0	5325.0	5330.0	5318.0	5340.0	5361.0	5380.0	5379.0	5386.0	5411.0
5°	5311.0	5330.0	5348.0	5380.0	5411.0	5429.0	5446.0	5462.0	5467.0	5482.0	5497.0
7.5°	5348.0	5367.0	5408.0	5464.0	5466.0	5511.0	5540.0	5545.0	5549.0	5549.0	5584.0
10°	5405.0	5440.0	5506.0	5545.0	5580.0	5565.0	5595.0	5576.0	5562.0	5568.0	5592.0
12.5°	5503.0	5534.0	5629.0	5672.0	5640.0	5634.0	5604.0	5561.0	5512.0	5507.0	5529.0
15°	5657.0	5715.0	5800.0	5841.0	5761.0	5690.0	5589.0	5501.0	5406.0	5371.0	5385.0
17.5°	5905.0	5975.0	6068.0	6040.0	5894.0	5754.0	5587.0	5401.0	5217.0	5089.0	5122.0
20°	6268.0	6320.0	6396.0	6283.0	6070.0	5839.0	5565.0	5271.0	4960.0	4727.0	4700.0
22.5°	6649.0	6728.0	6682.0	6473.0	6194.0	5872.0	5519.0	5082.0	4601.0	4309.0	4265.0
25°	7107.9	7133.9	6974.9	6660.0	6229.0	5820.0	5370.0	4806.0	4234.0	3959.0	3946.0
27.5°	7594.9	7535.9	7239.9	6746.0	6190.0	5666.0	5071.0	4370.0	3902.0	3659.0	3621.0
30°	8144.9	8007.9	7458.9	6755.0	6043.0	5366.0	4693.0	4029.0	3632.0	3388.0	3349.0
32.5°	8852.9	8529.9	7661.9	6662.0	5733.0	4926.0	4239.0	3738.0	3389.0	3144.0	3109.0
35°	9757.9	9212.9	7876.9	6494.0	5351.0	4486.0	3863.0	3491.0	3192.0	2897.0	2850.0
37.5°	10800.9	10165.9	8133.9	6282.0	4932.0	4099.0	3609.0	3334.0	3046.0	2712.0	2656.0
40°	12012.9	11119.9	8529.9	6029.0	4556.0	3820.0	3486.0	3280.0	2965.0	2617.0	2553.0
42.5°	13062.9	12128.9	9000.9	5757.0	4201.0	3588.0	3431.0	3244.0	2914.0	2546.0	2473.0
45°	14033.9	12961.9	9460.9	5427.0	3827.0	3429.0	3365.0	3154.0	2824.0	2458.0	2382.0
47.5°	14822.9	13634.9	9860.9	5124.0	3528.0	3283.0	3221.0	2983.0	2673.0	2352.0	2296.0
50°	15428.9	14140.9	10079.9	4883.0	3212.0	3117.0	3035.0	2790.0	2492.0	2215.0	2167.0
52.5°	16048.9	14647.9	10187.9	4895.0	2918.0	2870.0	2786.0	2576.0	2348.0	2135.0	2083.0
55°	16409.9	14855.9	10073.9	4604.0	2648.0	2592.0	2519.0	2410.0	2274.0	2085.0	2036.0
57.5°	16620.9	14984.9	9726.9	3755.0	2323.0	2270.0	2282.0	2273.0	2161.0	1962.0	1917.0
60°	16772.9	14704.9	9015.9	2760.0	2046.0	2006.0	2105.0	2073.0	1976.0	1821.0	1783.0
62.5°	16649.9	14171.9	7735.9	2075.0	1820.0	1905.0	1992.0	1933.0	1801.0	1660.0	1616.0
65°	15899.9	13125.9	5880.0	1667.0	1747.0	1864.0	1934.0	1839.0	1705.0	1538.0	1518.0
67.5°	14534.9	11229.9	3468.0	1528.0	1692.0	1816.0	1874.0	1748.0	1630.0	1470.0	1446.0
70°	12451.9	8406.9	1549.0	1423.0	1596.0	1719.0	1757.0	1638.0	1510.0	1360.0	1336.0
72.5°	9267.9	5069.0	1044.0	1314.0	1454.0	1563.0	1605.0	1479.0	1388.0	1320.0	1313.0
75°	5147.0	1760.0	963.0	1190.0	1299.0	1397.0	1449.0	1360.0	1288.0	1195.0	1157.0
77.5°	1639.0	748.0	915.0	1064.0	1202.0	1283.0	1275.0	1141.0	1118.0	1005.0	995.0
80°	654.0	652.0	846.0	871.0	1026.0	1094.0	1076.0	907.0	937.0	871.0	845.0
82.5°	513.0	597.0	678.0	665.0	798.0	878.0	853.0	666.0	753.0	692.0	633.0
85°	390.0	523.0	435.0	433.0	557.0	652.0	668.0	512.0	513.0	467.0	416.0
87.5°	201.0	193.0	167.0	166.0	186.0	265.0	325.0	291.0	230.0	173.0	166.0
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)