

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: P510787

Luminaire Tested: **CST-CA8-330-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
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-T2
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: 48588 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

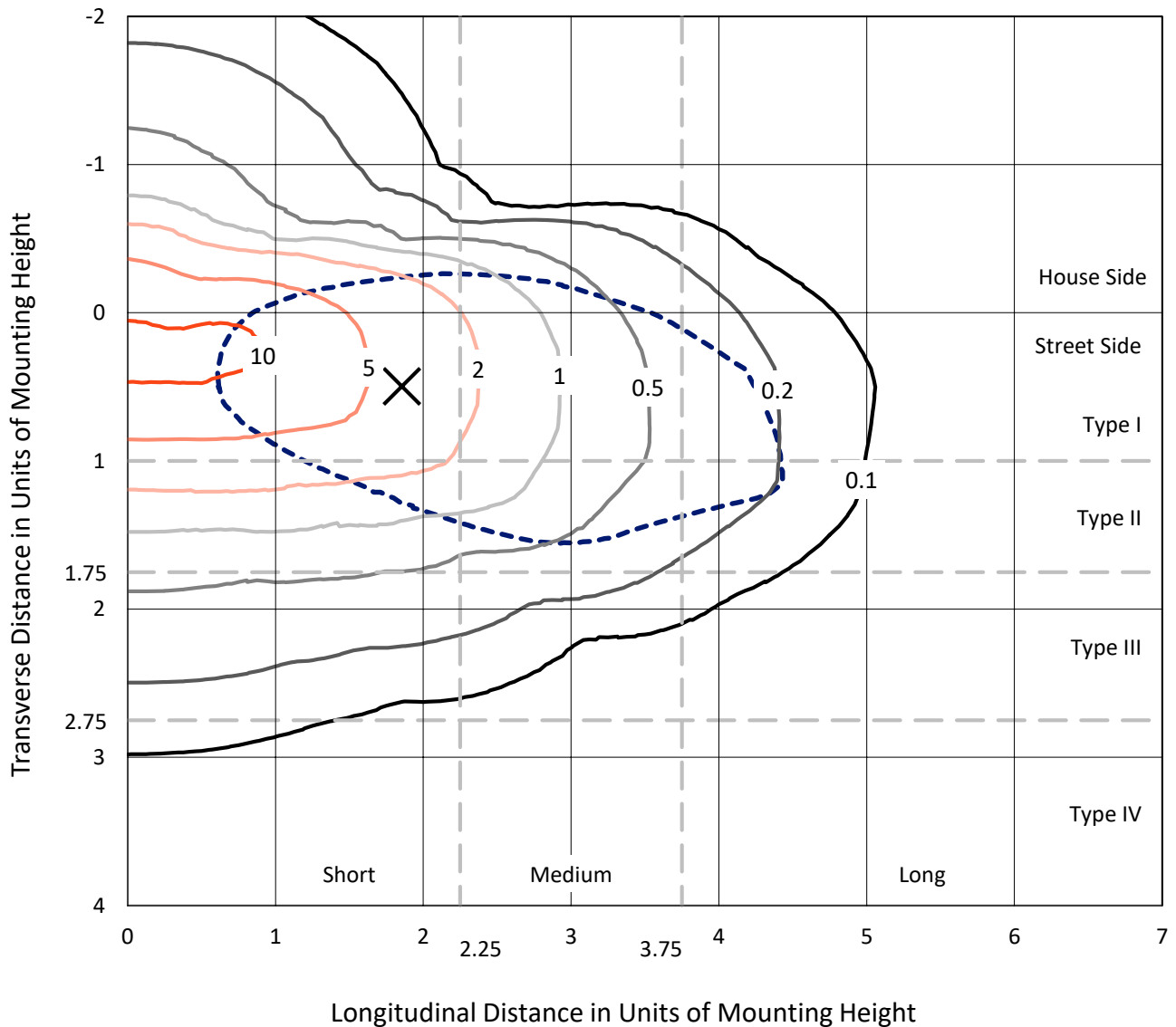
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

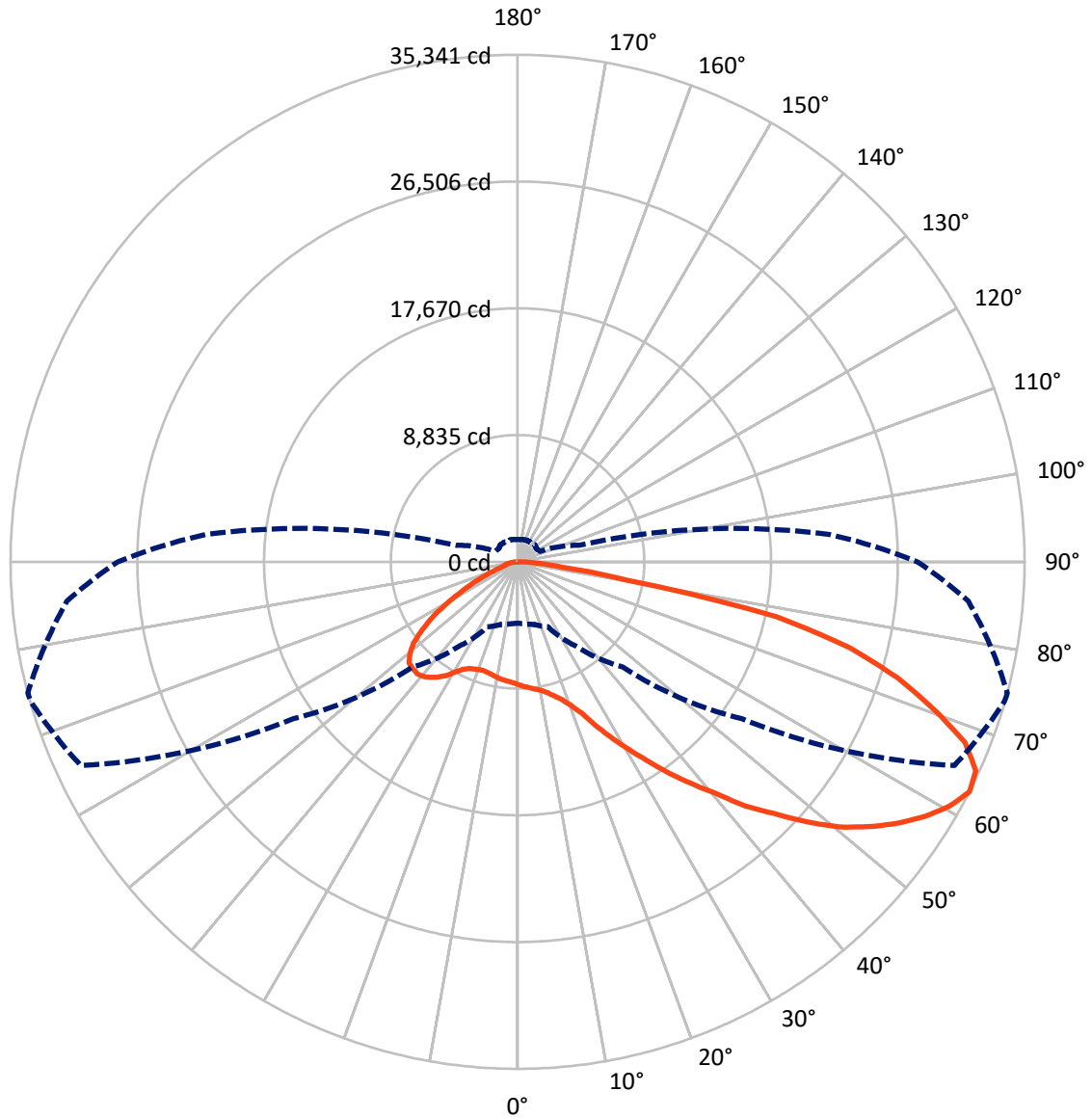
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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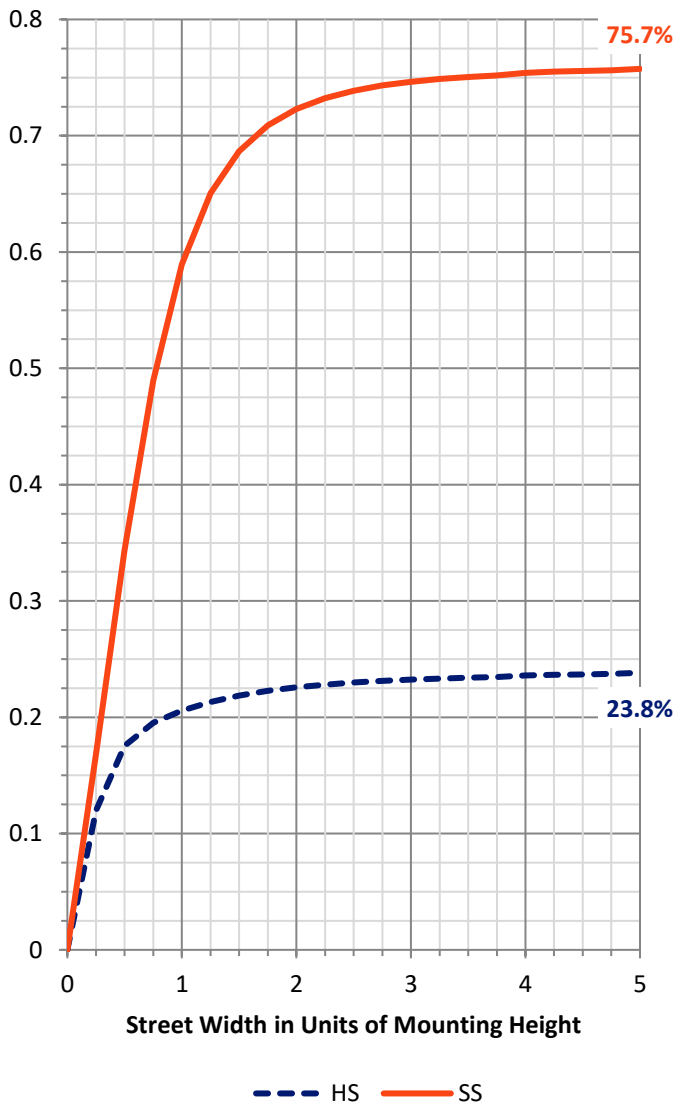
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11772.0	0.0	11772.0
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	36816.0	0.0	36816.0
	% Fixture	75.8	0.0	75.8
Total	Lumens	48588.0	0.0	48588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.0	1.7
10°-20°	2500.7	5.1
20°-30°	4313.1	8.9
30°-40°	6359.7	13.1
40°-50°	8383.5	17.3
50°-60°	9866.7	20.3
60°-70°	9816.4	20.2
70°-80°	5724.6	11.8
80°-90°	799.3	1.6
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°	48588.0	100.0
0°-180°	48588.0	100.0

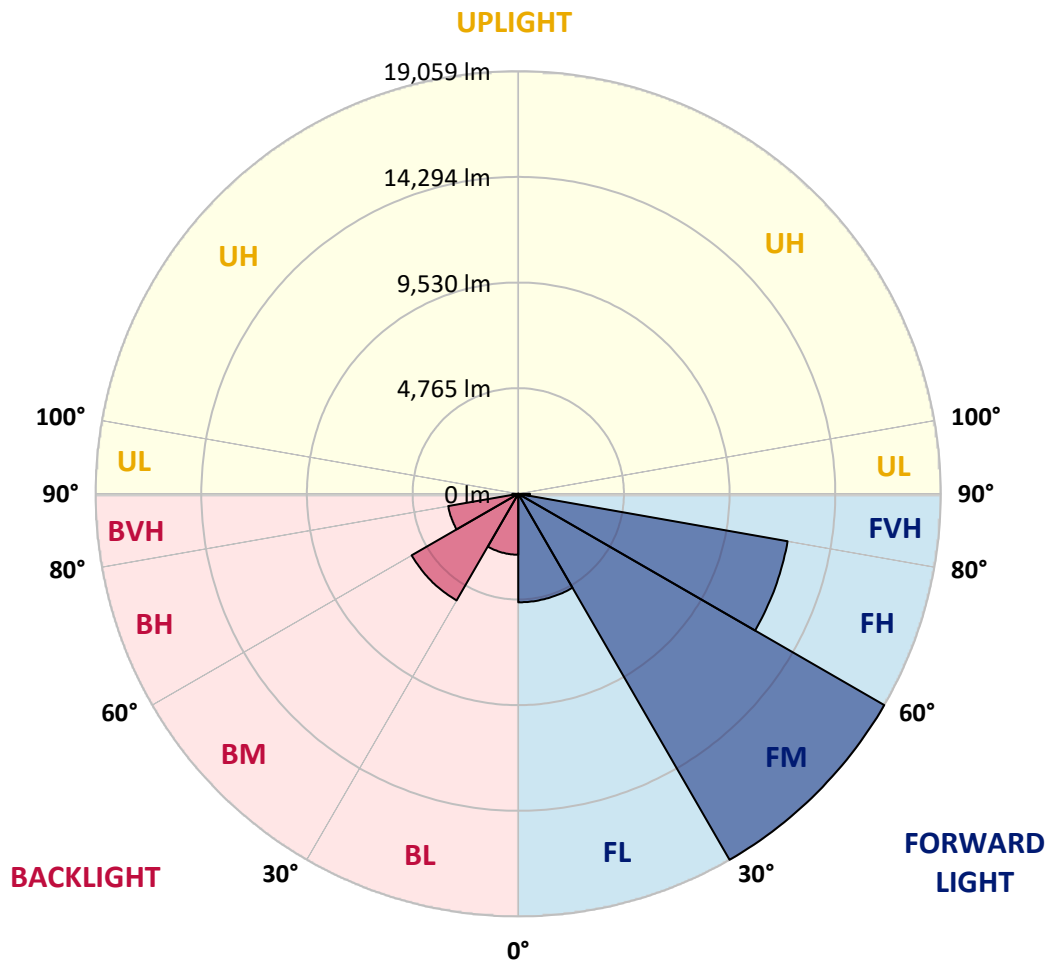


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4892.6	10.1			
FM (30°-60°)	19059.1	39.2			
FH (60°-80°)	12333.9	25.4			G5
FVH (80°-90°)	530.4	1.1			G4/750
BL (0°-30°)	2745.2	5.6	B4/5000		
BM (30°-60°)	5550.9	11.4	B4/8500		
BH (60°-80°)	3207.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	268.9	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0
2.5°	9034.0	8997.0	9002.0	8976.0	8937.0	8908.0	8832.0	8750.0	8701.0	8697.0	8627.0
5°	9487.9	9499.9	9502.9	9420.0	9338.0	9245.0	9129.0	8971.0	8842.0	8822.0	8686.0
7.5°	9901.9	9900.9	9894.9	9848.9	9810.9	9672.9	9441.0	9193.0	8983.0	8964.0	8743.0
10°	10325.9	10322.9	10262.9	10185.9	10099.9	9972.9	9773.9	9477.0	9137.0	9112.0	8796.0
12.5°	10787.9	10754.9	10716.9	10623.9	10521.9	10301.9	10092.9	9769.9	9415.0	9370.0	8890.0
15°	11168.9	11134.9	11081.9	11018.9	10911.9	10743.9	10521.9	10138.9	9757.9	9713.9	9101.0
17.5°	11545.9	11529.9	11491.9	11424.9	11342.9	11197.9	10993.9	10668.9	10169.9	10115.9	9452.0
20°	11854.9	11816.9	11788.9	11819.9	11826.9	11719.9	11607.9	11334.9	10784.9	10701.9	9882.9
22.5°	12030.9	12022.9	12175.9	12289.9	12335.9	12359.9	12324.9	12104.9	11606.9	11461.9	10482.9
25°	12197.9	12184.9	12392.9	12677.9	12948.9	13086.9	13179.9	13208.9	12751.9	12620.9	11447.9
27.5°	12202.9	12238.9	12540.9	13018.9	13431.9	13852.9	14298.9	14349.9	13948.9	13844.9	12545.9
30°	12229.9	12245.9	12544.9	13093.9	13953.9	14628.9	15209.9	15496.9	15150.9	15102.9	13754.9
32.5°	11886.9	11907.9	12372.9	13224.9	14347.9	15431.9	16202.9	16628.9	16542.9	16481.9	15044.9
35°	11529.9	11547.9	12087.9	13038.9	14640.9	16160.9	17099.9	17936.9	18093.9	18047.9	16483.9
37.5°	10969.9	11029.9	11595.9	12816.9	14691.9	16696.9	17955.9	19239.9	19713.9	19575.9	18005.9
40°	10361.9	10405.9	11064.9	12351.9	14634.9	17048.9	18796.9	20681.9	21255.9	21181.9	19516.9
42.5°	9593.9	9711.9	10371.9	11757.9	14341.9	17267.9	19574.9	22316.9	23150.9	23249.9	20904.9
45°	8947.0	8944.0	9556.9	10897.9	13810.9	17319.9	20290.9	23969.9	25189.9	25003.9	22739.9
47.5°	8186.0	8217.0	8857.0	10041.9	13027.9	17154.9	20848.9	25923.9	27158.9	27057.9	24244.9
50°	6425.0	6648.0	7860.0	9306.0	11968.9	16694.9	21313.9	27826.9	29005.8	29051.8	25612.9
52.5°	5539.0	5625.0	6294.0	8565.0	11028.9	15922.9	21823.9	29967.8	30790.8	30673.8	27165.9
55°	5184.0	5230.0	5551.0	7234.0	10119.9	14727.9	22068.9	31922.8	32182.8	32163.8	28443.9
57.5°	4927.0	4962.0	5190.0	6037.0	9122.0	13193.9	21861.9	33194.8	33598.8	33474.8	29649.8
60°	4556.0	4584.0	4924.0	5440.0	8095.0	11644.9	20588.9	33771.8	34625.8	34579.8	30715.8
62.5°	4277.0	4325.0	4515.0	4999.0	7218.0	10368.9	19071.9	33591.8	35299.8	35340.8	31529.8
65°	3982.0	4025.0	4186.0	4609.0	6423.0	9529.9	17435.9	32689.8	34989.8	35098.8	31661.8
67.5°	3618.0	3651.0	3842.0	4208.0	5494.0	8691.0	15590.9	31094.8	33269.8	33620.8	30347.8
70°	3160.0	3172.0	3406.0	3655.0	4562.0	7426.0	12396.9	28483.8	30780.8	30787.8	27866.9
72.5°	2515.0	2525.0	2587.0	2776.0	3427.0	5877.0	9112.0	23799.9	27754.9	27703.9	24766.9
75°	1710.0	1798.0	2013.0	2193.0	2472.0	4127.0	5667.0	16034.9	23514.9	23914.9	20343.9
77.5°	1351.0	1359.0	1448.0	1613.0	1854.0	3083.0	3176.0	8872.0	17530.9	18481.9	15990.9
80°	942.0	956.0	908.0	948.0	1293.0	2110.0	1856.0	3861.0	7311.0	7806.0	9600.9
82.5°	449.0	465.0	534.0	496.0	643.0	897.0	980.0	1995.0	3158.0	3241.0	3738.0
85°	296.0	296.0	297.0	281.0	375.0	391.0	445.0	851.0	1542.0	1594.0	1585.0
87.5°	95.0	105.0	102.0	119.0	144.0	130.0	136.0	267.0	529.0	524.0	438.0
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°	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0	8565.0
2.5°	8577.0	8536.0	8440.0	8356.0	8273.0	8210.0	8156.0	8084.0	8050.0	8019.0	8084.0
5°	8602.0	8529.0	8357.0	8185.0	8027.0	7911.0	7840.0	7788.0	7741.0	7741.0	7763.0
7.5°	8631.0	8532.0	8286.0	8042.0	7805.0	7673.0	7572.0	7506.0	7468.0	7470.0	7517.0
10°	8650.0	8498.0	8205.0	7876.0	7618.0	7406.0	7307.0	7212.0	7140.0	7097.0	7145.0
12.5°	8672.0	8487.0	8096.0	7725.0	7411.0	7171.0	6965.0	6894.0	6824.0	6770.0	6796.0
15°	8808.0	8529.0	8005.0	7533.0	7169.0	6870.0	6600.0	6470.0	6450.0	6413.0	6422.0
17.5°	9030.0	8642.0	7946.0	7298.0	6878.0	6525.0	6183.0	6015.0	5975.0	5956.0	5966.0
20°	9361.0	8857.0	7964.0	7133.0	6550.0	6155.0	5713.0	5516.0	5383.0	5391.0	5430.0
22.5°	9866.9	9204.0	8062.0	6952.0	6195.0	5677.0	5231.0	4963.0	4829.0	4800.0	4844.0
25°	10672.9	9762.9	8170.0	6779.0	5852.0	5161.0	4667.0	4377.0	4205.0	4194.0	4243.0
27.5°	11705.9	10619.9	8405.0	6629.0	5426.0	4541.0	4050.0	3802.0	3619.0	3597.0	3581.0
30°	12762.9	11571.9	8830.0	6401.0	4929.0	3901.0	3474.0	3280.0	3075.0	2992.0	3010.0
32.5°	13882.9	12458.9	9328.0	6241.0	4373.0	3338.0	2967.0	2782.0	2594.0	2474.0	2446.0
35°	15010.9	13340.9	9746.9	6002.0	3846.0	2891.0	2536.0	2345.0	2181.0	2083.0	2076.0
37.5°	16330.9	14258.9	10082.9	5748.0	3299.0	2541.0	2114.0	2004.0	1925.0	1839.0	1848.0
40°	17652.9	15328.9	10351.9	5328.0	2845.0	2165.0	1799.0	1821.0	1838.0	1766.0	1760.0
42.5°	18750.9	16227.9	10474.9	4784.0	2443.0	1838.0	1660.0	1760.0	1834.0	1787.0	1781.0
45°	19865.9	16984.9	10426.9	4109.0	2109.0	1682.0	1649.0	1751.0	1846.0	1835.0	1830.0
47.5°	21077.9	17976.9	10343.9	3340.0	1870.0	1667.0	1673.0	1721.0	1841.0	1861.0	1853.0
50°	22559.9	18889.9	9852.9	2601.0	1754.0	1691.0	1727.0	1702.0	1804.0	1845.0	1852.0
52.5°	24034.9	19592.9	9196.0	2254.0	1708.0	1714.0	1802.0	1717.0	1762.0	1798.0	1831.0
55°	25172.9	20308.9	8133.0	2045.0	1693.0	1725.0	1823.0	1749.0	1748.0	1748.0	1759.0
57.5°	26337.9	21267.9	7070.0	1910.0	1667.0	1737.0	1798.0	1755.0	1741.0	1721.0	1708.0
60°	27148.9	21622.9	5704.0	1821.0	1640.0	1720.0	1728.0	1722.0	1679.0	1660.0	1645.0
62.5°	27868.9	21815.9	4441.0	1719.0	1603.0	1680.0	1638.0	1625.0	1600.0	1554.0	1562.0
65°	27675.9	21401.9	3384.0	1604.0	1577.0	1632.0	1559.0	1528.0	1530.0	1482.0	1498.0
67.5°	26433.9	19544.9	2430.0	1428.0	1506.0	1537.0	1469.0	1446.0	1412.0	1388.0	1410.0
70°	23924.9	17325.9	1639.0	1185.0	1344.0	1411.0	1366.0	1326.0	1273.0	1257.0	1281.0
72.5°	20136.9	14462.9	1131.0	953.0	1160.0	1247.0	1230.0	1189.0	1151.0	1190.0	1237.0
75°	16542.9	10699.9	923.0	781.0	892.0	1039.0	1089.0	1101.0	1215.0	1595.0	1634.0
77.5°	11907.9	6633.0	830.0	635.0	712.0	831.0	931.0	972.0	1484.0	1421.0	1418.0
80°	6943.0	3866.0	633.0	501.0	576.0	609.0	728.0	1141.0	1280.0	1098.0	1071.0
82.5°	3168.0	1706.0	441.0	401.0	400.0	403.0	496.0	1098.0	982.0	865.0	833.0
85°	1165.0	600.0	268.0	232.0	266.0	231.0	325.0	805.0	569.0	560.0	467.0
87.5°	287.0	123.0	91.0	76.0	62.0	59.0	99.0	265.0	139.0	127.0	122.0
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)