

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: P510581

Luminaire Tested: **CTN-CA10-760-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510581
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: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85666 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

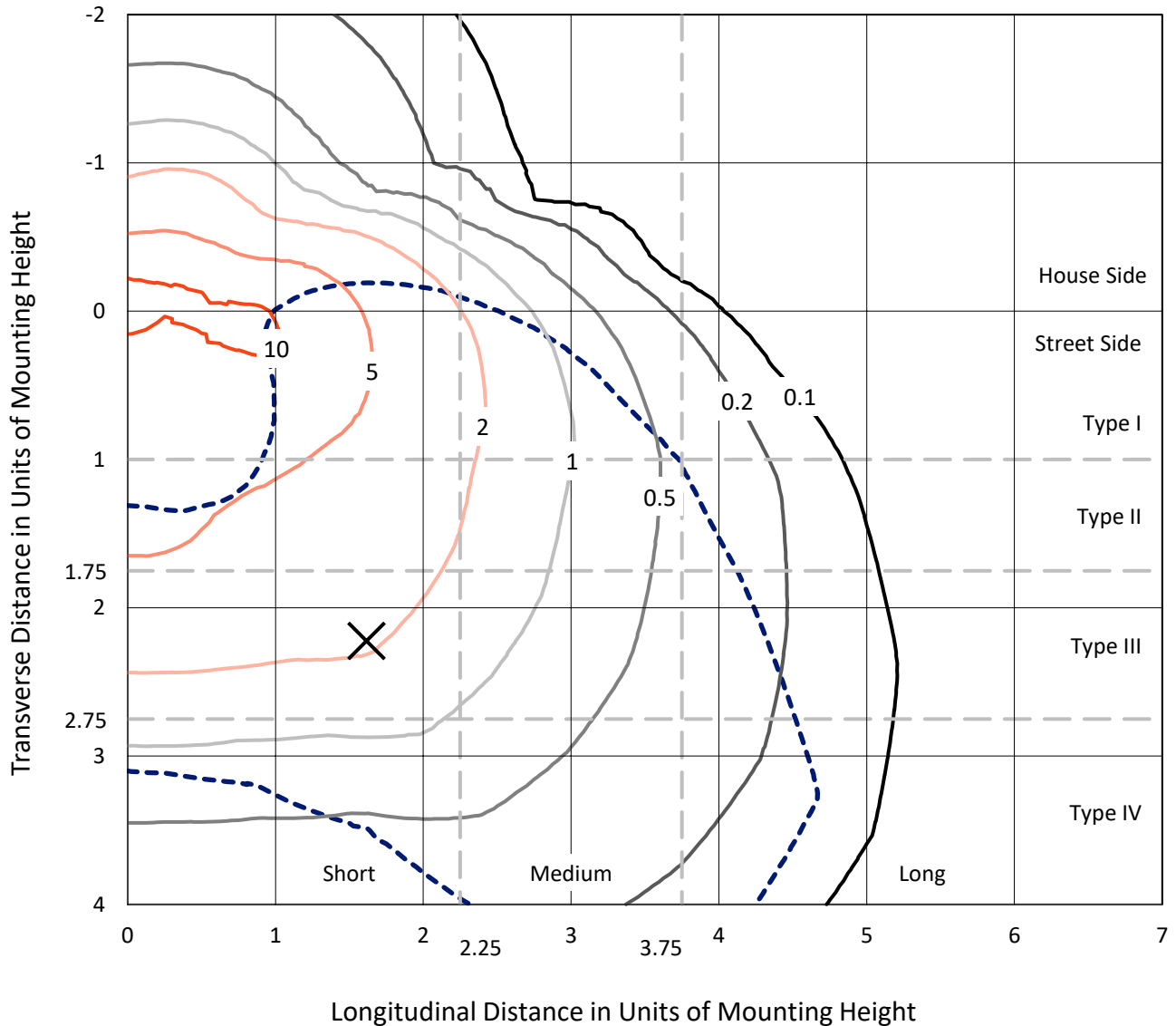
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

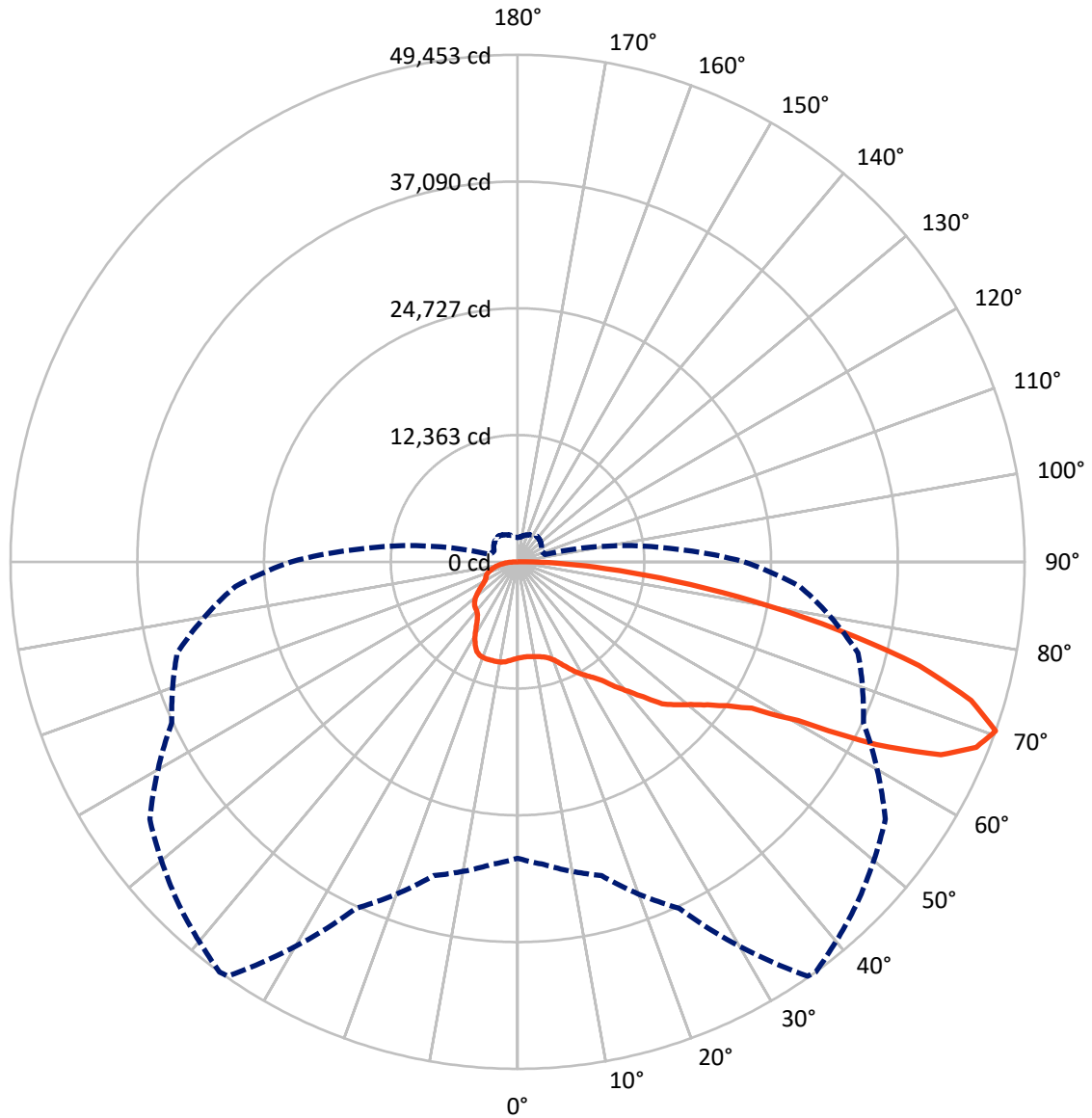
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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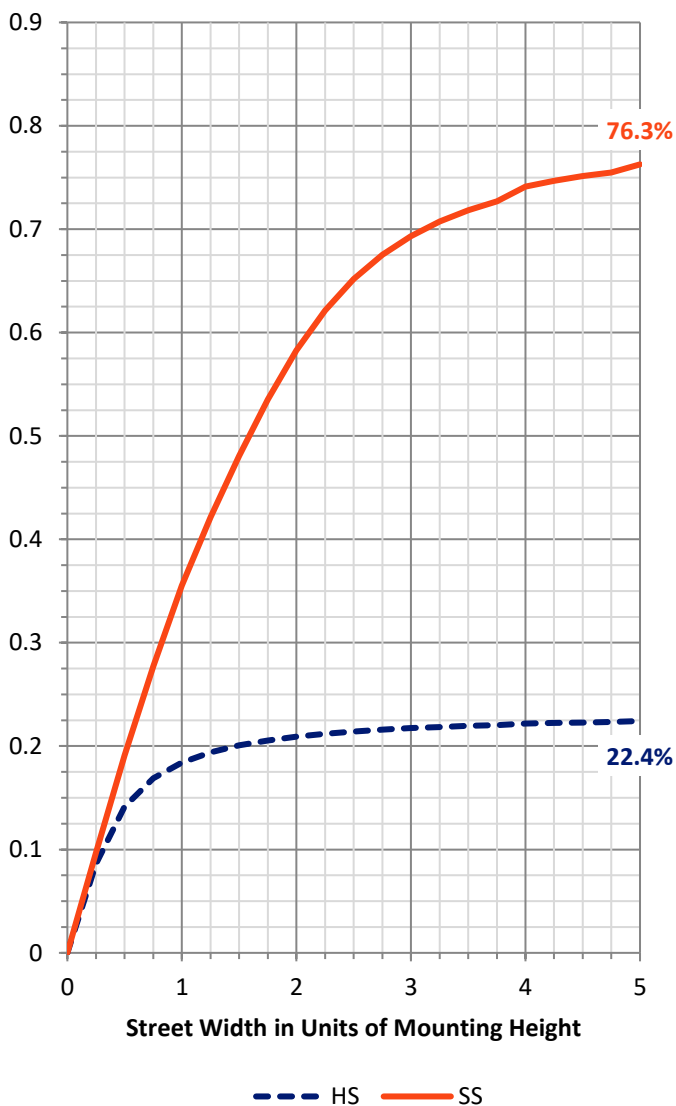
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19518.5	0.0	19518.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	66147.5	0.0	66147.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	85666.0	0.0	85666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.1	1.1
10°-20°	2810.3	3.3
20°-30°	5069.2	5.9
30°-40°	7851.2	9.2
40°-50°	11926.0	13.9
50°-60°	16530.2	19.3
60°-70°	21494.9	25.1
70°-80°	15873.8	18.5
80°-90°	3201.4	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°	85666.0	100.0
0°-180°	85666.0	100.0

Coefficient of Utilization

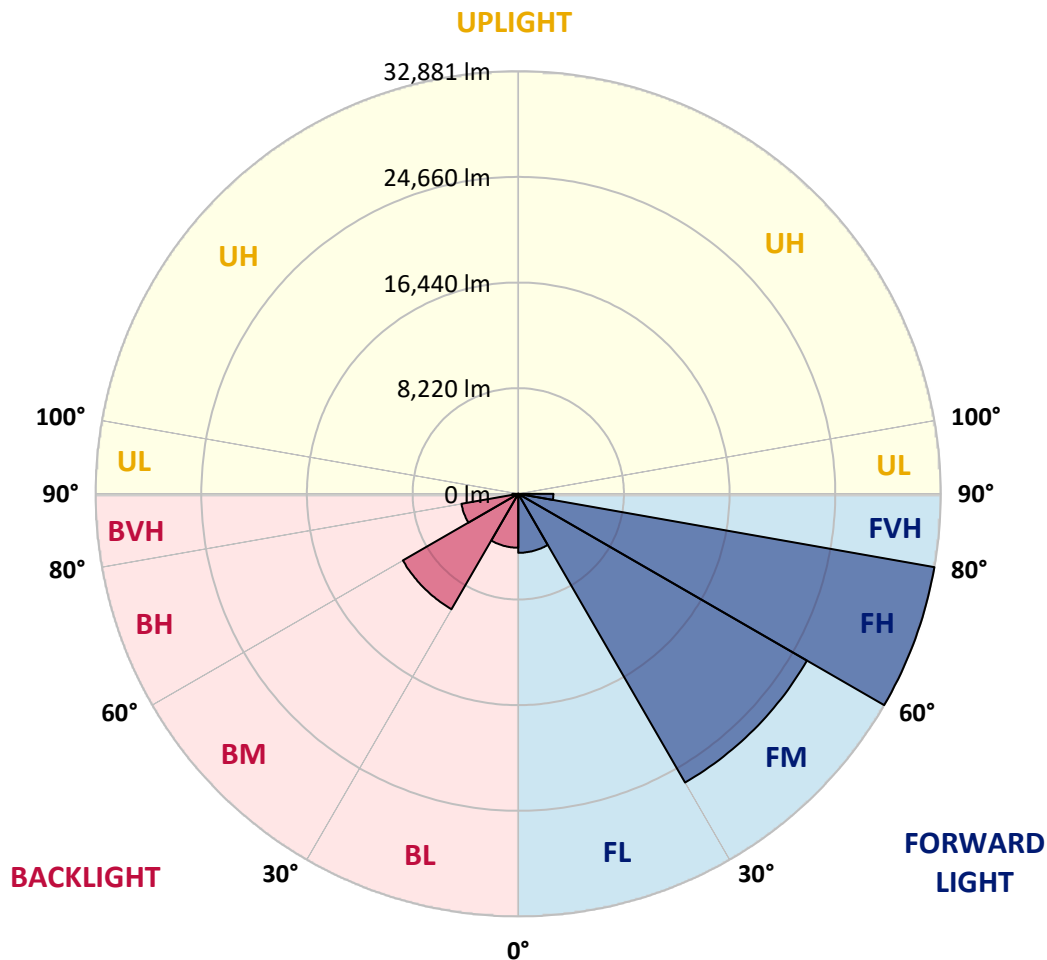


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4592.6	5.4			
FM (30°-60°)	25939.4	30.3			
FH (60°-80°)	32880.5	38.4			G5
FVH (80°-90°)	2735.0	3.2			G5
BL (0°-30°)	4196.0	4.9	B4/5000		
BM (30°-60°)	10368.0	12.1	B5		
BH (60°-80°)	4488.2	5.2	B4/5000		G4/5000
BVH (80°-90°)	466.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0
2.5°	9326.2	9313.8	9306.7	9320.9	9326.2	9328.0	9331.5	9328.0	9319.1	9351.1	9390.1
5°	9328.0	9320.9	9306.7	9294.3	9294.3	9294.3	9296.1	9336.9	9354.6	9351.1	9398.9
7.5°	9342.2	9336.9	9310.3	9301.4	9322.7	9329.8	9365.2	9352.8	9372.3	9404.3	9445.1
10°	9344.0	9336.9	9313.8	9333.3	9393.6	9404.3	9420.2	9455.7	9462.8	9501.8	9542.6
12.5°	9361.7	9361.7	9370.6	9413.1	9477.0	9489.4	9549.7	9578.1	9620.7	9640.2	9689.8
15°	9455.7	9453.9	9475.2	9523.1	9626.0	9633.1	9707.6	9792.7	9824.6	9872.5	9952.3
17.5°	9679.2	9689.8	9691.6	9727.1	9849.5	9853.0	9975.4	10055.2	10127.9	10213.1	10395.8
20°	10209.5	10190.0	10168.7	10168.7	10216.6	10241.5	10335.5	10463.2	10612.2	10762.9	10977.6
22.5°	10876.5	10915.5	10837.4	10796.6	10819.7	10791.3	10862.3	10965.1	11139.0	11364.2	11635.6
25°	11672.9	11676.4	11671.1	11506.1	11454.7	11472.4	11531.0	11626.7	11857.3	12036.5	12430.2
27.5°	12449.7	12433.8	12377.0	12203.2	12153.5	12178.4	12176.6	12440.9	12676.8	12905.6	13368.5
30°	13155.7	13198.3	13097.2	12804.5	12809.8	12806.3	12887.9	13228.4	13659.4	14085.1	14560.5
32.5°	14400.8	14271.4	14134.8	13556.5	13450.1	13437.7	13485.6	13992.9	14631.4	15349.8	15920.9
35°	15573.3	15541.3	15406.5	14819.4	14204.0	14193.3	14127.7	14744.9	15642.4	16972.7	17685.8
37.5°	16772.3	16726.2	16593.2	16093.0	15481.0	15422.5	14870.9	15546.7	16759.9	18870.6	19887.0
40°	18201.9	18173.5	17967.8	17327.5	16699.6	16610.9	16038.0	16389.2	18170.0	21398.2	22114.7
42.5°	19455.9	19450.6	19214.7	18620.5	18086.6	17997.9	17510.2	17875.6	20130.0	23874.3	24296.4
45°	20376.5	20516.6	20527.3	20188.5	19819.6	19741.5	19612.0	20115.8	22396.8	26121.6	26059.5
47.5°	21153.4	21274.0	21148.1	20974.2	20848.3	20853.6	21054.1	22054.4	24635.2	28079.8	27597.3
50°	22451.8	22377.3	21722.8	21619.9	21779.5	21873.5	22455.3	24147.4	27198.2	29917.3	28977.3
52.5°	24324.8	24039.2	22755.1	22545.8	23150.6	23186.1	24112.0	26018.7	29759.5	31494.2	30240.2
55°	26887.8	26651.9	25201.0	24234.3	24539.4	24778.9	26082.6	27936.1	31850.7	32977.0	31212.2
57.5°	30676.5	30694.2	29511.2	27709.1	26671.4	26926.8	27945.0	29800.3	33578.3	34218.6	31818.8
60°	33713.1	34275.4	33922.4	33099.4	31609.5	31435.6	30660.5	31742.5	35054.0	35274.0	32398.8
62.5°	35818.5	36073.9	37287.2	37461.0	39163.7	39236.5	35524.1	34018.2	36675.2	35965.7	32521.2
65°	35712.1	35869.9	37787.3	40121.6	45151.8	45377.1	43204.3	37461.0	37785.6	36274.4	32164.6
67.5°	33225.3	33463.0	35900.1	40263.5	48342.8	48257.6	46879.4	42253.6	38151.0	35779.5	30465.4
70°	28906.3	29638.9	31685.7	37271.2	49339.6	49453.1	46913.1	43784.3	37209.1	34380.0	27632.8
72.5°	23824.6	24055.2	25988.6	32239.1	46425.4	46258.6	44990.4	41764.0	35506.3	31848.9	22675.2
75°	18118.6	18118.6	20459.9	25692.3	39867.9	40453.2	40946.3	37826.4	31455.2	25958.4	15440.2
77.5°	12027.6	12458.6	14344.1	19306.9	31558.0	31990.8	33693.6	32242.7	25754.4	19035.6	7052.3
80°	6380.1	6433.3	8455.3	12829.3	22572.4	23388.3	25729.6	24867.6	18524.7	8918.3	1782.6
82.5°	2231.3	2435.3	3717.7	7435.4	14872.6	15381.7	17068.5	14776.9	6543.3	1974.2	986.2
85°	1108.6	1147.6	1637.1	3540.3	8373.7	8620.3	9971.9	5755.7	1053.6	862.0	670.5
87.5°	533.9	546.3	627.9	1266.4	3639.7	3808.2	4031.7	1873.0	390.2	328.1	290.9
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°	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0	9383.0
2.5°	9398.9	9414.9	9445.1	9453.9	9432.6	9471.7	9508.9	9542.6	9540.8	9553.3	9597.6
5°	9420.2	9453.9	9485.9	9542.6	9597.6	9629.5	9659.7	9688.1	9696.9	9723.5	9750.1
7.5°	9485.9	9519.6	9592.3	9691.6	9695.2	9775.0	9826.4	9835.3	9842.4	9842.4	9904.5
10°	9587.0	9649.0	9766.1	9835.3	9897.4	9870.8	9924.0	9890.3	9865.4	9876.1	9918.6
12.5°	9760.8	9815.8	9984.3	10060.5	10003.8	9993.1	9939.9	9863.7	9776.7	9767.9	9806.9
15°	10033.9	10136.8	10287.6	10360.3	10218.4	10092.5	9913.3	9757.2	9588.7	9526.7	9551.5
17.5°	10473.8	10598.0	10762.9	10713.3	10454.3	10206.0	9909.8	9579.9	9253.5	9026.5	9085.0
20°	11117.7	11209.9	11344.7	11144.3	10766.5	10356.8	9870.8	9349.3	8797.7	8384.4	8336.5
22.5°	11793.5	11933.6	11852.0	11481.3	10986.4	10415.3	9789.2	9014.0	8160.9	7643.0	7564.9
25°	12607.6	12653.7	12371.7	11813.0	11048.5	10323.1	9524.9	8524.5	7509.9	7022.2	6999.1
27.5°	13471.4	13366.8	12841.7	11965.5	10979.3	10049.9	8994.5	7751.2	6921.1	6490.0	6422.6
30°	14447.0	14204.0	13230.2	11981.5	10718.6	9517.8	8324.1	7146.3	6442.2	6009.4	5940.2
32.5°	15702.7	15129.8	13590.2	11816.5	10168.7	8737.3	7518.8	6630.2	6011.1	5576.6	5514.5
35°	17308.0	16341.3	13971.6	11518.5	9491.2	7956.9	6851.9	6192.1	5661.7	5138.5	5055.1
37.5°	19158.0	18031.6	14427.4	11142.5	8748.0	7270.5	6401.4	5913.6	5402.8	4810.3	4711.0
40°	21307.7	19723.8	15129.8	10693.8	8081.1	6775.6	6183.2	5817.8	5259.1	4641.8	4528.3
42.5°	23170.1	21513.5	15965.3	10211.3	7451.4	6364.1	6085.6	5753.9	5168.6	4515.9	4386.4
45°	24892.4	22991.0	16781.2	9626.0	6788.0	6082.1	5968.6	5594.3	5009.0	4359.8	4225.0
47.5°	26291.9	24184.7	17490.7	9088.5	6257.7	5823.1	5713.2	5291.0	4741.2	4171.8	4072.5
50°	27366.7	25082.2	17879.1	8661.1	5697.2	5528.7	5383.2	4948.7	4420.1	3928.8	3843.7
52.5°	28466.4	25981.5	18070.7	8682.4	5175.7	5090.6	4941.6	4569.1	4164.7	3786.9	3694.7
55°	29106.8	26350.4	17868.5	8166.2	4696.8	4597.5	4468.0	4274.7	4033.4	3698.2	3611.3
57.5°	29481.0	26579.2	17253.0	6660.3	4120.4	4026.3	4047.6	4031.7	3833.0	3480.0	3400.2
60°	29750.6	26082.6	15991.9	4895.5	3629.0	3558.1	3733.7	3676.9	3504.9	3229.9	3162.5
62.5°	29532.4	25137.2	13721.5	3680.5	3228.2	3378.9	3533.3	3428.6	3194.5	2944.4	2866.3
65°	28202.2	23281.9	10429.5	2956.8	3098.7	3306.2	3430.4	3261.9	3024.2	2728.0	2692.5
67.5°	25781.0	19918.9	6151.3	2710.2	3001.1	3221.1	3324.0	3100.5	2891.2	2607.4	2564.8
70°	22086.4	14911.7	2747.5	2524.0	2830.9	3049.0	3116.4	2905.4	2678.3	2412.3	2369.7
72.5°	16438.8	8991.0	1851.8	2330.7	2579.0	2772.3	2846.8	2623.3	2461.9	2341.3	2328.9
75°	9129.3	3121.7	1708.1	2110.7	2304.1	2477.9	2570.1	2412.3	2284.6	2119.6	2052.2
77.5°	2907.1	1326.7	1623.0	1887.2	2132.0	2275.7	2261.5	2023.8	1983.0	1782.6	1764.9
80°	1160.0	1156.5	1500.6	1544.9	1819.8	1940.5	1908.5	1608.8	1662.0	1544.9	1498.8
82.5°	909.9	1058.9	1202.6	1179.5	1415.4	1557.3	1513.0	1181.3	1335.6	1227.4	1122.8
85°	691.8	927.7	771.6	768.0	988.0	1156.5	1184.8	908.1	909.9	828.3	737.9
87.5°	356.5	342.3	296.2	294.4	329.9	470.0	576.5	516.2	408.0	306.9	294.4
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)