

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: P591024

Luminaire Tested: **CTN-CA10-760-722-U-T3-HSS-HM-EX120**

Issue Date: 12/14/2021

Test Information

Test Method: LM-79-08
Report Number: P591024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2112-474-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T3-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79033 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

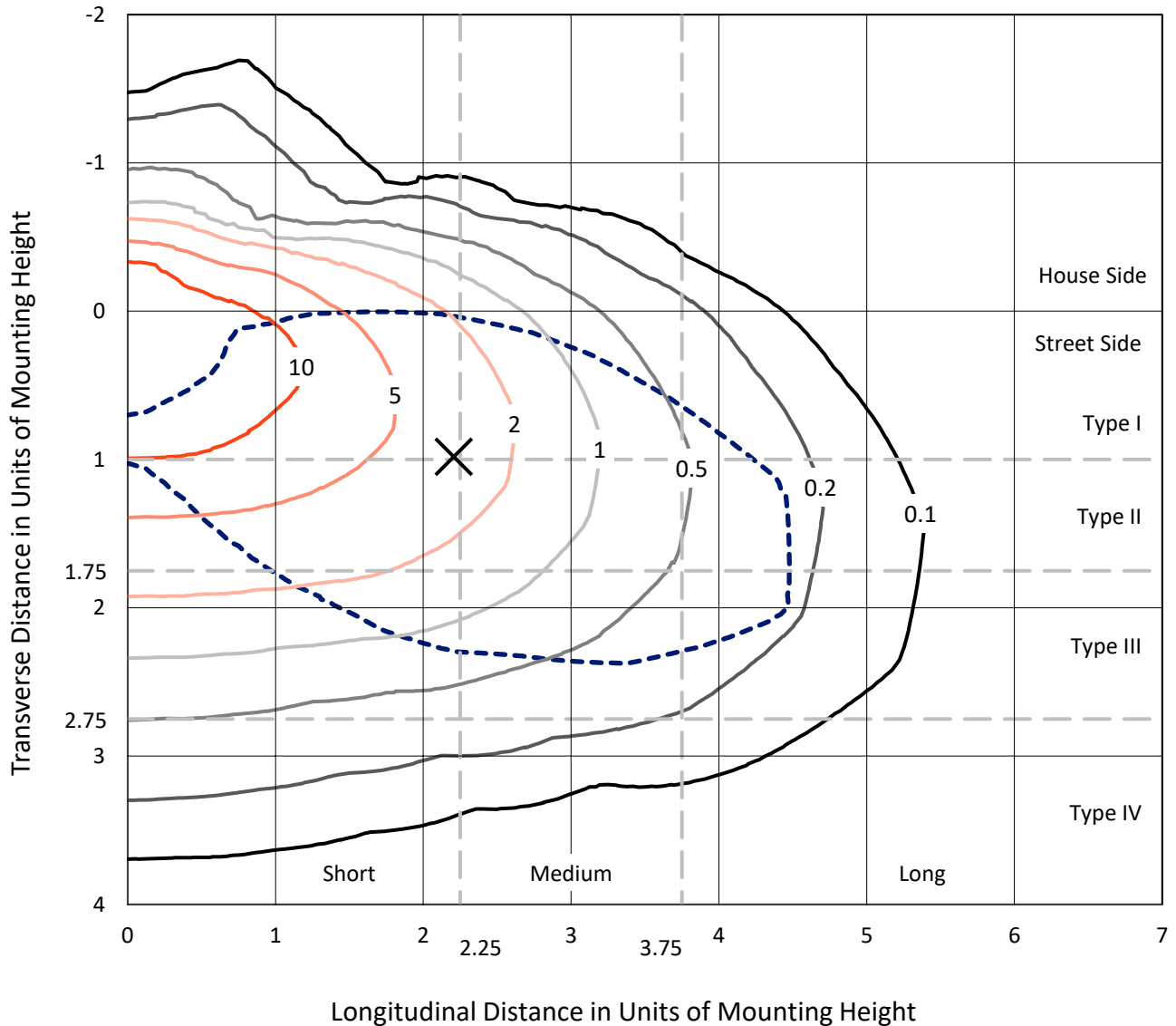
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P591024
 CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

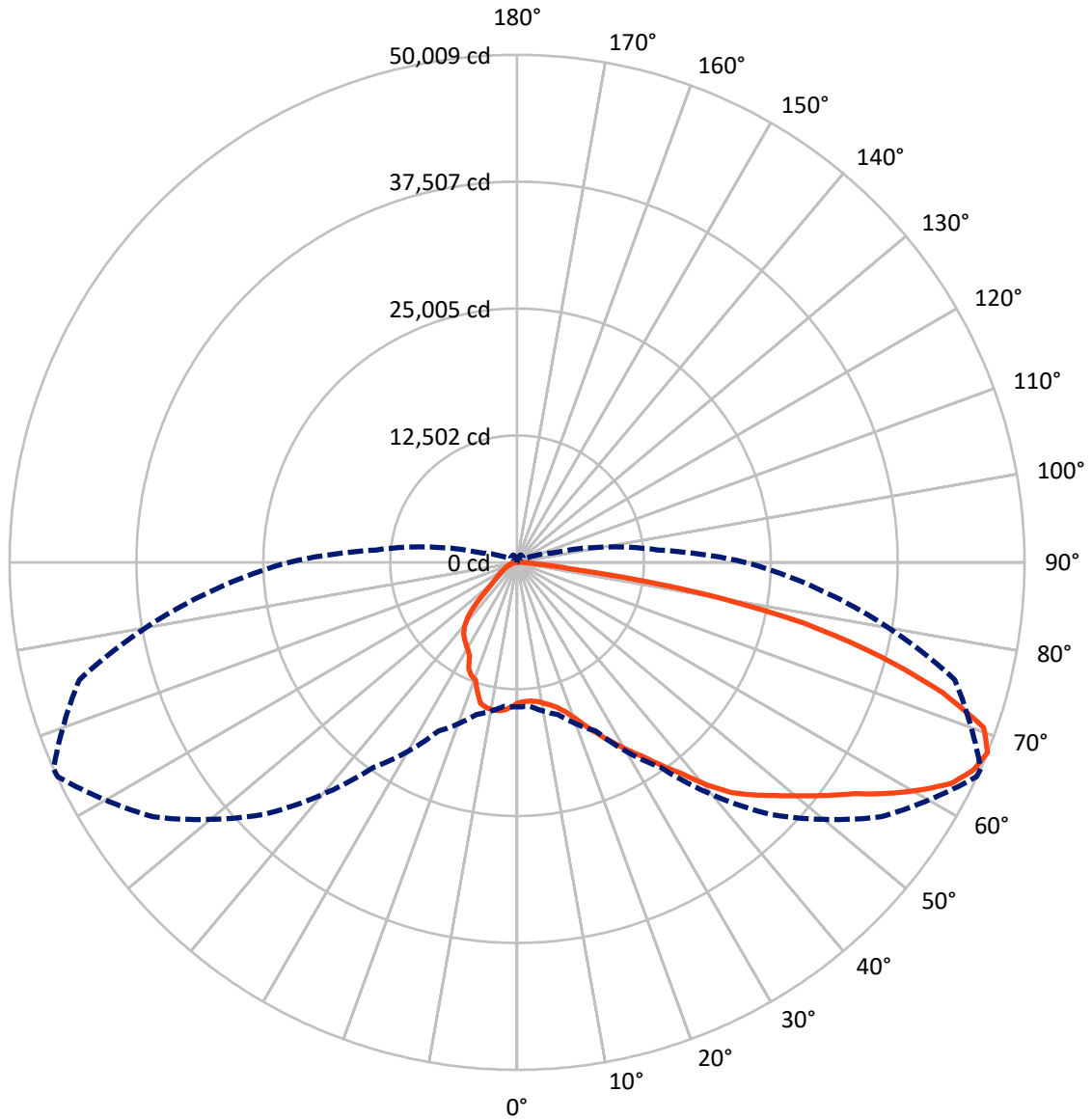
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Short - N/A

REPORT NUMBER: P591024
CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P591024

CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

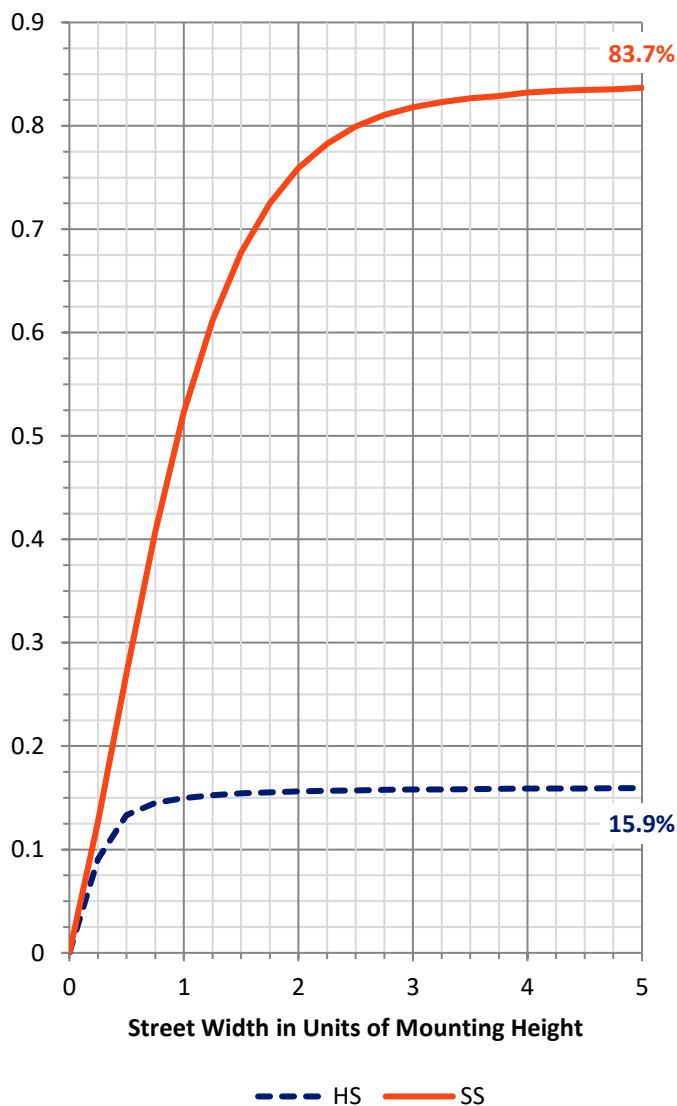
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12757.6	0.0	12757.6
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	66275.4	0.0	66275.4
	% Fixture	83.9	0.0	83.9
Total	Lumens	79033.0	0.0	79033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1371.3	1.7
10°-20°	4134.5	5.2
20°-30°	6721.0	8.5
30°-40°	9817.6	12.4
40°-50°	13076.1	16.5
50°-60°	15817.9	20.0
60°-70°	16934.7	21.4
70°-80°	10050.1	12.7
80°-90°	1109.7	1.4
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°	79033.0	100.0
0°-180°	79033.0	100.0

Coefficient of Utilization



REPORT NUMBER: P591024

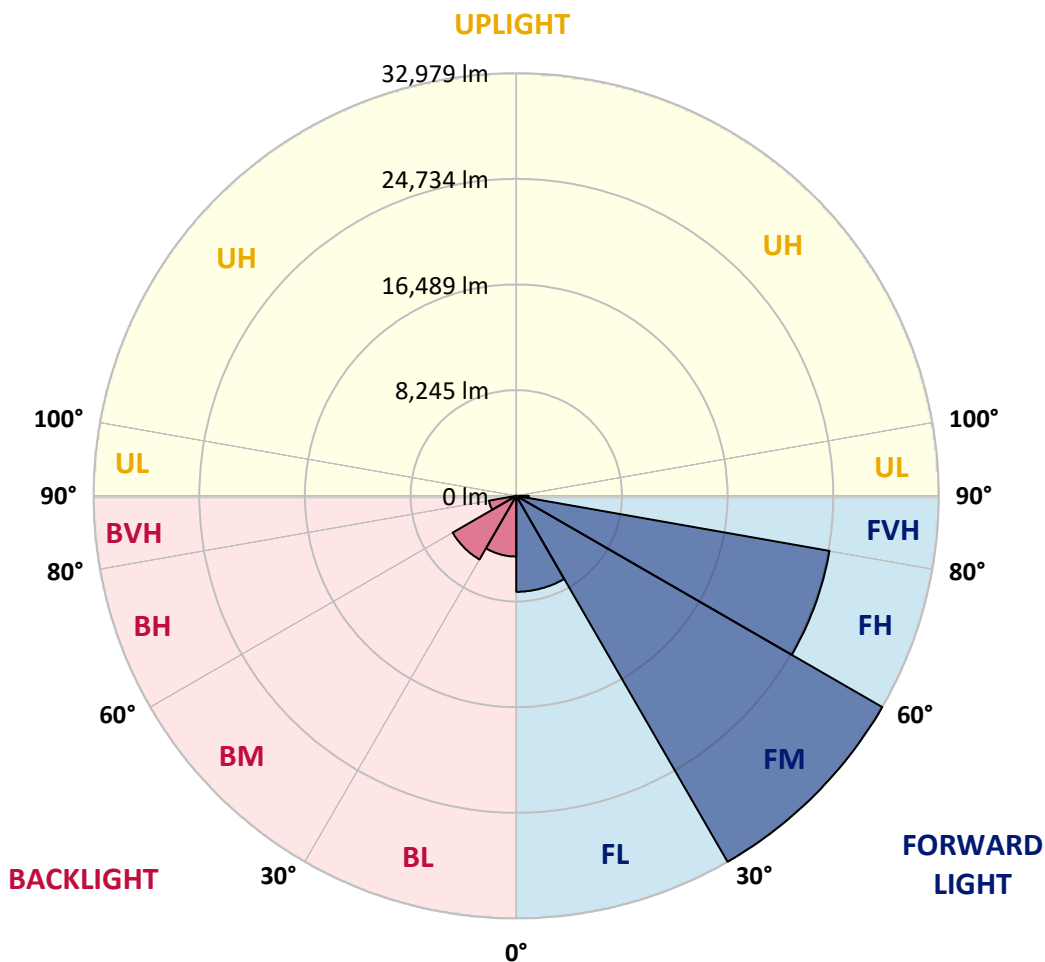
CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7488.9	9.5			
FM (30°-60°)	32979.0	41.7			
FH (60°-80°)	24823.8	31.4			G5
FVH (80°-90°)	983.7	1.2			G5
BL (0°-30°)	4738.0	6.0	B4/5000		
BM (30°-60°)	5732.6	7.3	B4/8500		
BH (60°-80°)	2161.0	2.7	B3/2500		G3/2500
BVH (80°-90°)	126.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P591024

CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3
2.5°	13661.3	13584.2	13619.0	13709.9	13535.6	13646.4	13568.0	13704.9	13742.2	13757.2	13811.9
5°	13928.9	13826.9	13829.3	13886.6	13688.7	13737.3	13604.1	13699.9	13729.8	13769.6	13902.8
7.5°	14398.1	14284.8	14274.9	14289.8	14043.4	13988.6	13800.7	13820.6	13843.0	13866.7	14039.7
10°	15042.8	14927.0	14907.1	14868.5	14543.7	14400.6	14121.8	14078.3	14099.4	14060.8	14266.2
12.5°	15816.9	15677.5	15604.1	15493.3	15117.4	14893.4	14525.0	14405.6	14424.2	14343.3	14486.5
15°	16630.8	16482.7	16442.9	16272.4	15809.4	15503.3	15026.6	14844.9	14849.9	14756.5	14750.3
17.5°	17499.5	17367.6	17335.2	17226.9	16714.2	16349.5	15760.9	15514.5	15495.8	15403.7	15129.9
20°	18485.2	18401.8	18384.4	18322.1	17857.9	17431.1	16761.5	16430.4	16411.8	16266.2	15681.2
22.5°	19697.4	19599.0	19546.8	19493.3	19146.0	18701.7	17982.4	17515.7	17589.1	17343.9	16396.8
25°	20903.3	20824.9	20780.1	20745.3	20459.0	20038.4	19310.3	18762.7	18836.1	18573.5	17266.8
27.5°	22100.6	21927.6	21999.8	22081.9	21795.7	21460.9	20669.3	20073.2	20095.6	19811.9	18308.5
30°	23213.2	23122.3	23246.8	23324.0	23114.9	22853.5	22022.2	21445.9	21479.5	21142.3	19503.2
32.5°	24201.4	24070.7	24348.2	24498.8	24374.3	24159.0	23356.3	22810.0	22819.9	22615.8	20929.5
35°	24926.9	24935.6	25319.0	25723.4	25722.2	25418.5	24736.5	24482.6	24598.4	24507.5	22679.3
37.5°	25666.2	25600.2	26043.3	26644.4	26841.0	26571.0	26166.5	26317.1	26472.6	26751.4	24332.0
40°	26015.9	26018.4	26554.8	27249.2	27703.5	27652.5	27510.6	28517.4	28839.8	28923.1	23669.9
42.5°	25594.0	25623.9	26580.9	27809.3	28514.9	28785.0	29096.1	30811.1	31028.9	30557.2	24450.3
45°	25041.4	25082.5	26206.3	28002.2	29234.3	29994.7	30852.2	32524.9	32694.1	32066.9	25585.3
47.5°	24522.4	24598.4	25768.2	27886.4	29804.3	31357.5	32422.8	34139.0	34345.6	33518.0	26643.1
50°	23840.4	24009.7	25203.2	27579.0	30233.6	32543.5	33873.9	36081.8	36161.4	34934.3	27596.5
52.5°	23180.8	23230.6	24563.5	27185.8	30557.2	33618.8	35605.1	38078.0	38170.1	36485.0	28476.4
55°	22277.3	22352.0	23841.7	26692.9	30756.4	34519.9	37357.4	40158.9	40241.0	38348.1	29422.2
57.5°	21282.9	21337.7	22905.8	25936.2	30607.0	35320.1	39225.5	42779.9	42981.5	40264.7	30272.2
60°	20034.6	20106.8	21698.6	24887.1	30091.8	36253.5	41532.8	45581.3	45581.3	42024.4	30945.5
62.5°	18276.1	18376.9	19988.6	23376.2	29021.5	36793.6	43374.8	48020.6	48004.5	43410.9	31173.3
65°	16232.6	16248.7	17709.8	21250.5	27244.3	36506.1	44076.7	49445.6	49409.5	44414.0	30859.7
67.5°	14250.0	14232.6	15529.4	18343.3	24681.7	35091.1	43741.9	49965.9	50009.4	44655.4	29691.0
70°	11437.3	11414.9	12607.2	14907.1	20806.2	32043.2	41839.0	48645.4	48777.3	43276.4	27750.8
72.5°	8184.1	8150.5	8721.7	10242.6	15279.2	26359.4	37094.8	43570.2	43811.6	38859.6	24207.6
75°	4792.7	4828.8	5425.0	6299.9	9074.0	17340.2	30086.8	36590.8	36935.5	33057.5	19040.2
77.5°	2665.8	2658.3	3096.4	3754.8	4462.9	8684.4	21004.1	28816.1	28933.1	25903.9	12803.8
80°	1286.9	1280.6	1398.9	1764.8	2545.1	3901.6	10316.0	17904.0	18258.7	15743.5	6260.0
82.5°	925.9	930.9	996.9	968.3	949.6	1721.2	3442.4	5639.0	5148.7	3973.8	1935.3
85°	695.7	695.7	755.4	696.9	680.8	876.2	1673.9	2014.9	1934.0	1768.5	1150.0
87.5°	327.3	311.1	331.0	313.6	291.2	388.3	734.3	851.3	787.8	687.0	502.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P591024

CATALOG NUMBER: CTN-CA10-760-722-U-T3-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3	13839.3
2.5°	13905.3	13932.6	14075.8	14262.4	14279.9	14440.4	14490.2	14689.3	14681.9	14627.1	14684.3
5°	13998.6	14082.0	14327.2	14589.8	14657.0	14858.6	14902.1	15097.5	15110.0	15042.8	15098.8
7.5°	14147.9	14269.9	14501.4	14761.5	14791.4	14970.6	14963.1	15148.6	15116.2	15057.7	15132.4
10°	14330.9	14425.5	14579.8	14751.6	14737.9	14881.0	14836.2	14969.3	14902.1	14854.8	14940.7
12.5°	14515.1	14518.8	14531.3	14639.5	14554.9	14587.3	14498.9	14597.2	14493.9	14414.3	14466.6
15°	14699.3	14594.7	14419.3	14352.1	14116.8	13996.1	13869.2	13987.4	13746.0	13619.0	13651.4
17.5°	14959.4	14708.0	14118.1	13264.3	12540.0	12140.5	11840.6	11609.1	11614.1	11728.6	11797.0
20°	15167.2	14211.4	12770.2	12242.6	11701.2	10970.6	9836.9	9525.7	9320.4	9316.6	9350.2
22.5°	15093.8	13686.2	12771.5	11946.4	10769.0	9309.2	8818.8	8533.8	8054.7	7030.4	6947.0
25°	15769.6	14151.7	12844.9	11334.0	9284.3	8543.8	7870.5	7316.7	6107.0	5916.6	5909.1
27.5°	16579.8	14780.2	12944.5	10012.3	8690.6	7691.3	6835.0	5497.1	4917.2	4835.0	4806.4
30°	17516.9	15520.7	12337.1	9589.2	8058.4	6699.4	5564.3	4221.5	3749.8	3721.2	3728.6
32.5°	18691.8	16365.7	11703.7	9240.7	7293.0	5550.7	3794.6	3219.6	2949.6	2654.6	2749.2
35°	19943.8	15879.1	12082.0	8810.1	6334.7	4174.2	2882.4	2557.5	2338.5	1956.4	1800.9
37.5°	19450.9	16213.9	12521.3	8337.2	5137.5	2830.1	2230.2	1949.0	1743.6	1425.0	1418.8
40°	20058.3	17172.2	12835.0	7575.5	3715.0	2007.4	1625.4	1508.4	1413.8	1237.1	1212.2
42.5°	21131.1	18008.5	13047.8	6598.6	2220.3	1493.4	1387.7	1405.1	1322.9	1187.3	1171.1
45°	22187.7	18740.3	12847.4	5108.8	1579.3	1346.6	1352.8	1345.3	1245.8	1196.0	1178.6
47.5°	23149.7	19358.8	12283.6	3370.2	1370.2	1313.0	1326.7	1293.1	1181.1	1152.4	1150.0
50°	23976.1	20012.2	9726.1	2582.4	1318.0	1268.2	1298.1	1243.3	1050.4	1019.3	986.9
52.5°	24485.1	18925.7	8640.9	1983.8	1263.2	1198.5	1207.2	1252.0	989.4	787.8	738.0
55°	24408.0	17049.0	8033.5	1651.5	1176.1	1101.4	1118.8	1191.0	894.8	616.0	557.6
57.5°	24775.1	16894.7	7403.8	1405.1	1014.3	998.1	963.3	1085.2	813.9	408.2	387.1
60°	24715.4	16876.0	6607.3	1105.2	896.1	838.8	795.3	883.6	583.7	151.8	138.1
62.5°	24618.3	16396.8	5702.5	990.7	825.1	802.7	765.4	865.0	496.6	105.8	78.4
65°	24131.7	15619.0	4677.0	867.4	770.4	724.3	721.8	818.9	409.5	58.5	26.1
67.5°	22470.2	13925.2	3479.7	799.0	738.0	714.4	757.9	789.0	393.3	59.7	23.6
70°	20404.3	11691.2	2245.2	720.6	692.0	704.4	740.5	797.8	382.1	54.8	21.2
72.5°	17061.4	9044.1	1361.5	643.4	626.0	663.3	730.5	797.8	353.4	46.0	17.4
75°	12979.3	6032.3	1013.1	568.8	548.8	596.1	665.8	766.6	347.2	39.8	11.2
77.5°	8058.4	2848.8	799.0	477.9	456.7	505.3	558.8	632.2	352.2	38.6	6.2
80°	3259.5	1189.8	627.2	384.6	358.4	384.6	453.0	538.9	280.0	54.8	0.0
82.5°	1371.5	837.6	512.8	306.2	286.2	252.6	308.6	399.5	220.3	43.6	0.0
85°	907.3	581.2	367.1	207.8	182.9	123.2	150.6	180.5	125.7	0.0	0.0
87.5°	410.7	257.6	160.5	70.9	59.7	33.6	19.9	17.4	0.0	0.0	0.0
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)