

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: P510596

Luminaire Tested: **CTN-CA10-760-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-CA10-760-730-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95202 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

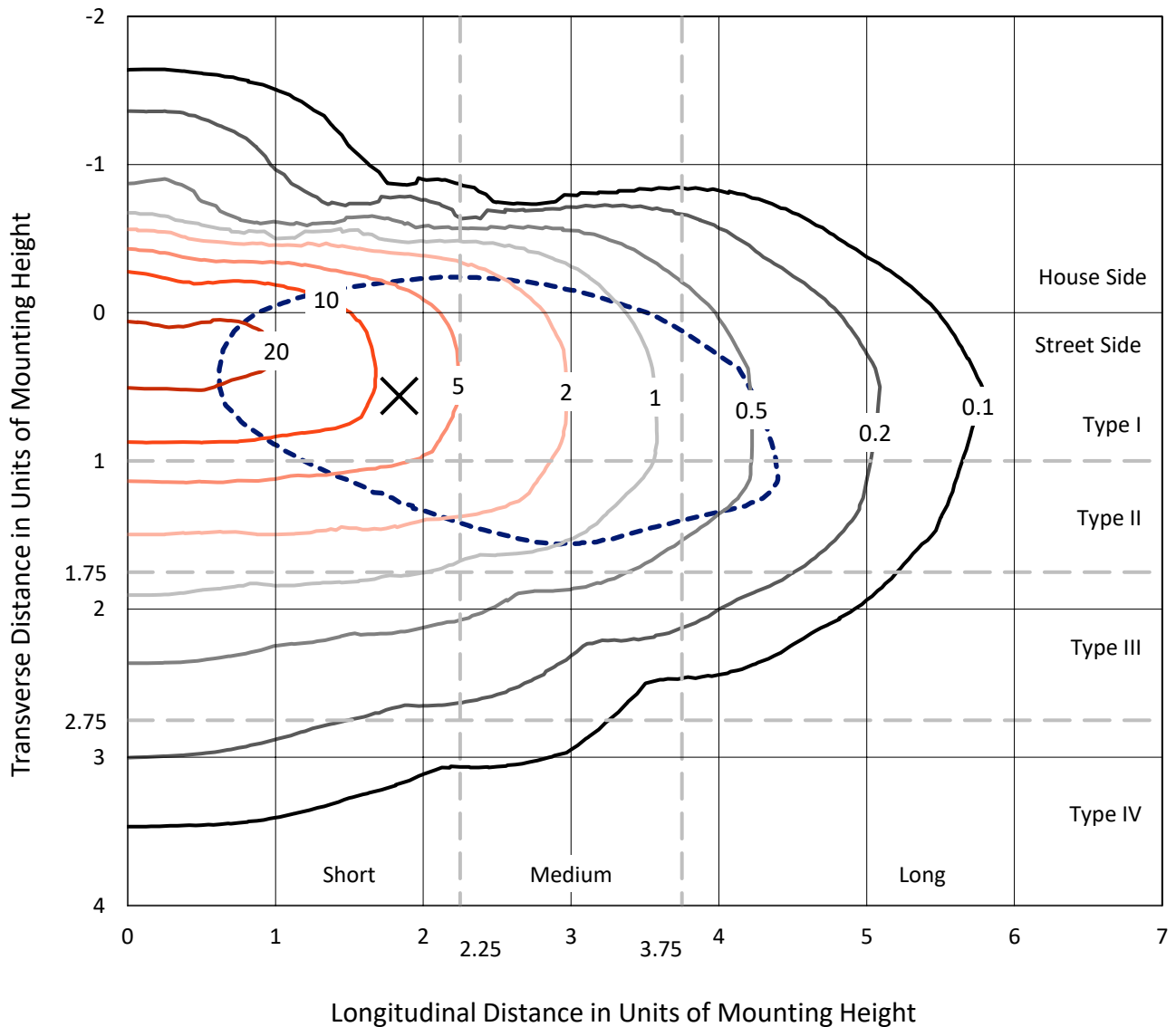
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

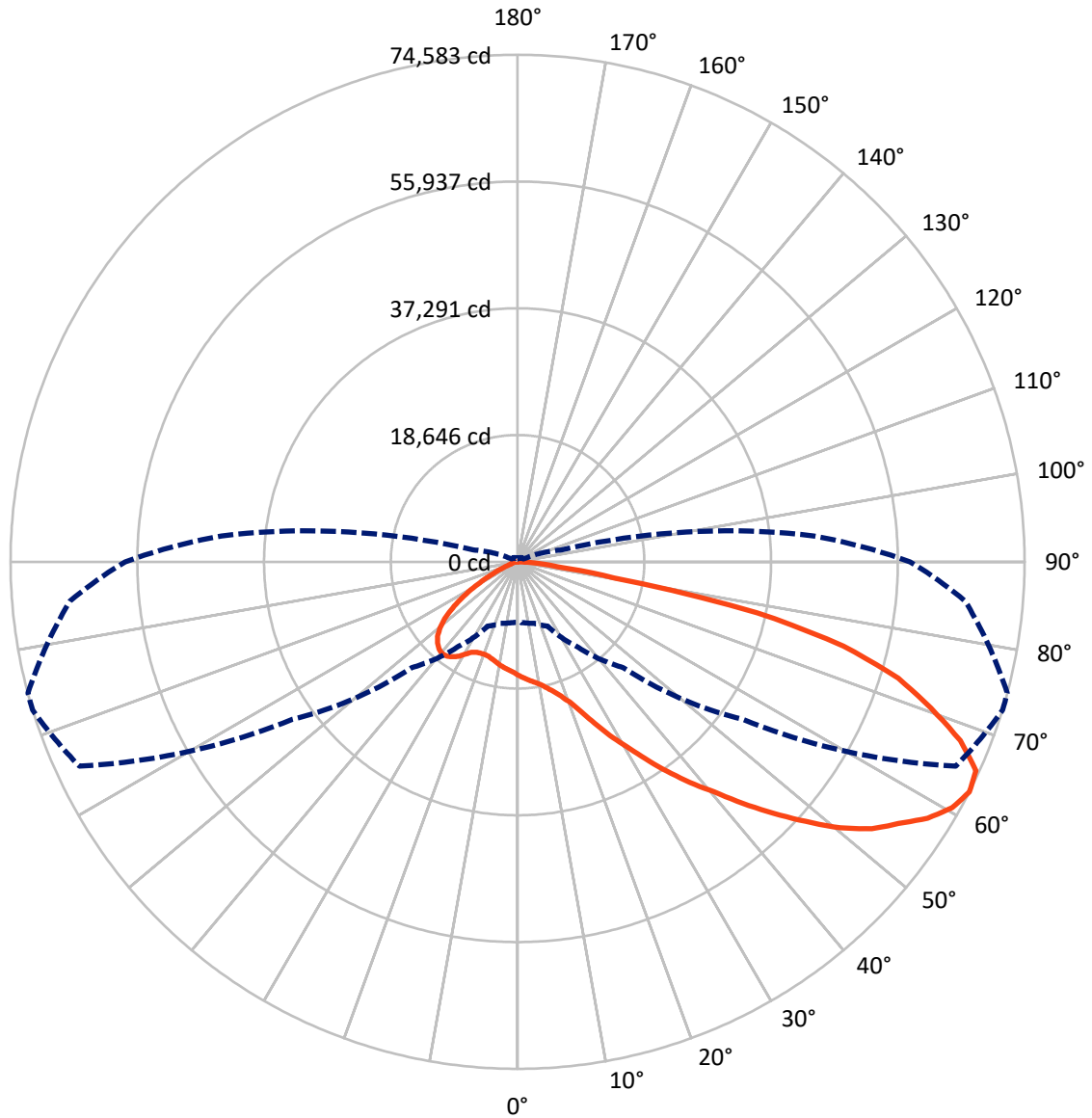
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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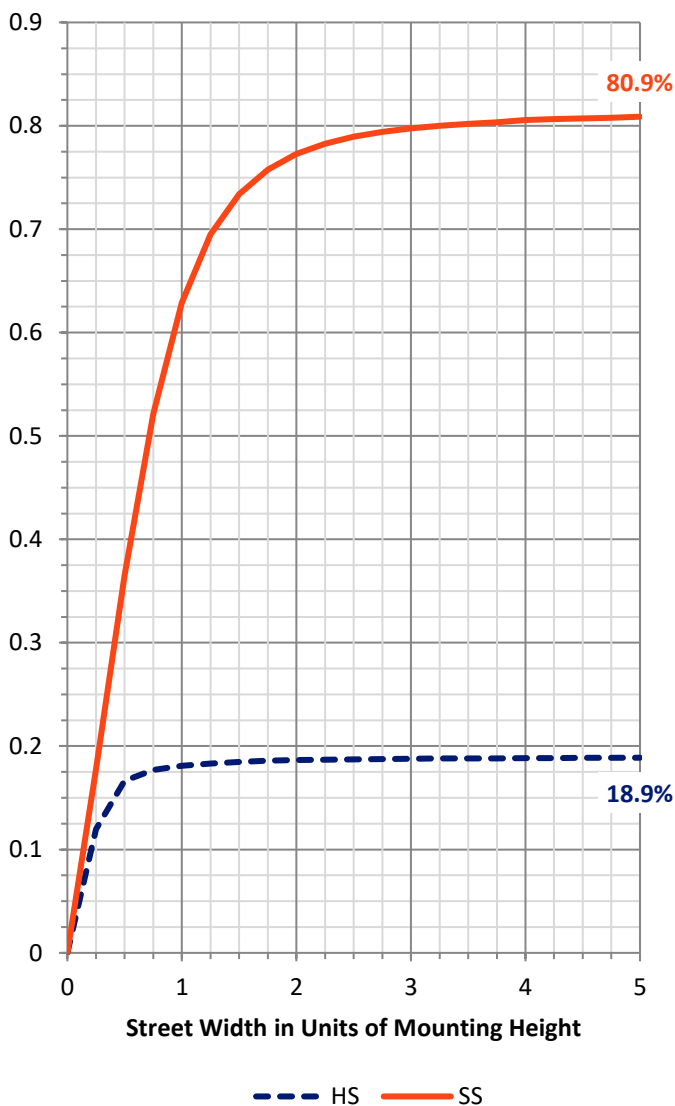
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18211.7	0.0	18211.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	76990.3	0.0	76990.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	95202.0	0.0	95202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1594.7	1.7
10°-20°	4796.5	5.0
20°-30°	8287.4	8.7
30°-40°	12462.2	13.1
40°-50°	16617.1	17.5
50°-60°	19570.0	20.6
60°-70°	19456.0	20.4
70°-80°	11170.2	11.7
80°-90°	1247.8	1.3
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°	95202.0	100.0
0°-180°	95202.0	100.0

Coefficient of Utilization

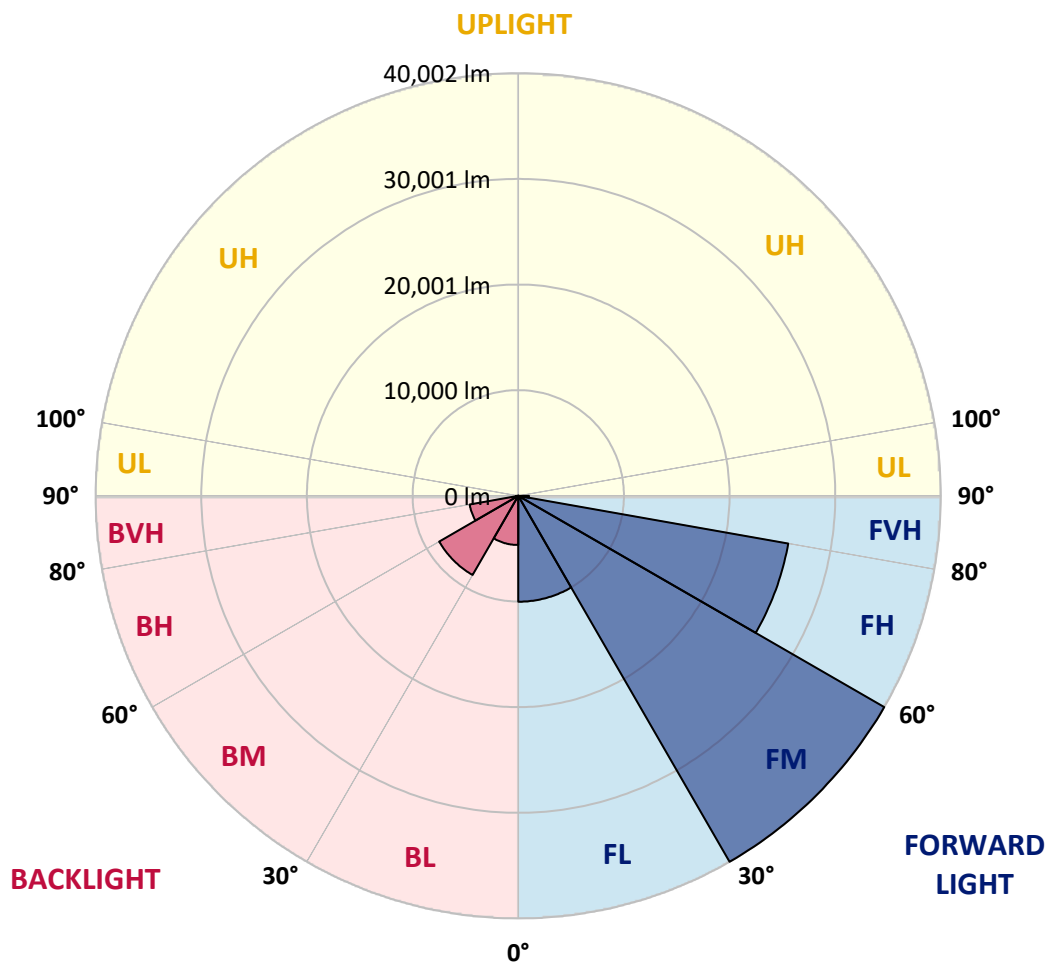


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10024.7	10.5			
FM (30°-60°)	40001.6	42.0			
FH (60°-80°)	25950.6	27.3			G5
FVH (80°-90°)	1013.5	1.1			G5
BL (0°-30°)	4653.9	4.9	B4/5000		
BM (30°-60°)	8647.8	9.1	B5		
BH (60°-80°)	4675.6	4.9	B4/5000		G4/5000
BVH (80°-90°)	234.4	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3
2.5°	17863.1	17907.9	17854.5	17831.0	17805.4	17638.7	17444.2	17245.5	17085.2	17059.6	16850.1
5°	19117.5	19141.0	19053.4	18952.9	18779.8	18504.2	18155.8	17811.8	17491.2	17405.7	17023.2
7.5°	20081.2	20036.4	20015.0	19929.5	19777.8	19474.3	18946.5	18382.3	17886.6	17766.9	17185.6
10°	20985.2	20966.0	20803.5	20696.7	20455.2	20175.3	19741.5	19025.6	18326.8	18134.5	17326.7
12.5°	21963.9	21921.2	21854.9	21624.2	21427.5	20955.3	20431.7	19779.9	19002.1	18745.6	17568.2
15°	22844.4	22729.0	22692.6	22451.2	22252.4	21891.3	21365.6	20609.1	19777.8	19557.7	18027.6
17.5°	23682.1	23628.6	23547.4	23382.9	23160.6	22882.8	22461.8	21651.9	20792.9	20472.3	18807.6
20°	24393.7	24327.4	24256.9	24301.8	24252.6	24075.3	23810.3	23120.0	22070.8	21760.9	19756.4
22.5°	24889.5	24887.3	25169.4	25334.0	25428.0	25421.6	25357.5	24966.4	23910.7	23596.6	21175.4
25°	25301.9	25334.0	25690.8	26317.0	26876.9	26928.1	27381.2	27195.3	26297.7	25970.8	23310.2
27.5°	25423.7	25487.8	26135.3	27120.5	27971.0	28787.3	29451.9	29791.7	28960.4	28569.4	25605.4
30°	25511.3	25537.0	26171.7	27351.3	29144.2	30437.1	31625.2	32200.1	31484.2	31197.8	28163.3
32.5°	24893.7	24902.3	25874.6	27661.1	30005.4	32247.1	33653.2	34736.7	34548.6	34170.4	30960.6
35°	24043.2	24201.4	25316.9	27362.0	30714.9	33909.7	35824.4	37440.0	37816.1	37544.7	33755.8
37.5°	22991.8	23115.8	24310.3	26917.5	30870.9	35053.0	37512.6	40188.1	41171.2	41126.3	37130.1
40°	21698.9	21850.7	23280.3	25960.1	30794.0	35884.3	39493.6	43231.2	44479.2	44338.2	40476.6
42.5°	20171.0	20393.2	21780.2	24729.2	30231.9	36392.9	41115.6	46329.8	48575.8	48483.9	43438.5
45°	18660.2	18779.8	20044.9	23015.3	29197.6	36557.4	42641.4	50599.5	52777.1	52674.5	47007.3
47.5°	17102.3	17207.0	18527.7	21209.6	27402.6	36226.2	43848.8	54266.6	57057.5	56954.9	50552.5
50°	13478.0	13873.3	16580.9	19621.8	25357.5	35288.0	44987.8	58835.5	61536.6	61100.7	53657.6
52.5°	11531.2	11674.3	13078.3	18021.2	23316.6	33687.4	45748.6	63068.8	65220.8	64592.5	56833.1
55°	10779.0	10875.1	11563.2	15070.0	21399.8	31266.2	46644.0	67312.9	67983.9	67823.6	59423.1
57.5°	10208.4	10315.2	10806.7	12586.8	19380.3	27872.7	46364.0	70298.3	71138.1	70625.2	62173.4
60°	9400.6	9531.0	10182.7	11300.4	17085.2	24427.9	43900.1	71520.6	73431.1	72854.1	64265.5
62.5°	8892.0	8977.5	9351.4	10434.9	15183.3	22004.5	40393.3	71127.4	74582.9	74561.5	66079.8
65°	8201.7	8327.8	8727.4	9605.7	13490.8	20126.1	37085.2	69184.9	74087.1	74106.4	66453.8
67.5°	7479.4	7530.7	7949.6	8654.8	11497.0	18405.9	32804.9	65861.9	70225.6	70665.8	63865.9
70°	6577.6	6552.0	7005.0	7520.0	9396.3	15627.8	26404.6	59951.0	64519.8	64701.5	58632.5
72.5°	5175.8	5199.3	5325.4	5682.2	7133.3	12298.3	19160.2	50650.8	58555.5	58878.2	51943.7
75°	3479.0	3517.5	4105.1	4453.5	5130.9	8838.6	12048.3	34189.6	49501.1	50411.5	42513.2
77.5°	2654.1	2677.6	2848.6	3229.0	3711.9	6299.8	6530.6	18630.2	36038.1	38198.6	33257.9
80°	1880.5	1889.1	1720.3	1530.1	1976.7	4274.0	3857.3	7934.6	14360.5	16969.8	19534.2
82.5°	842.0	829.2	976.6	812.1	1139.0	1654.0	1820.7	3850.8	5964.3	6411.0	6979.4
85°	391.1	438.1	502.2	421.0	677.4	639.0	709.5	1641.2	2795.2	3085.8	3068.7
87.5°	96.2	104.7	132.5	168.8	245.8	218.0	213.7	483.0	624.0	621.9	955.2
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°	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3	16696.3
2.5°	16706.9	16595.8	16333.0	16078.7	15837.2	15676.9	15497.4	15309.4	15196.1	15142.7	15258.1
5°	16790.3	16578.7	16076.5	15572.2	15144.8	14779.4	14522.9	14305.0	14187.4	14198.1	14204.5
7.5°	16860.8	16563.8	15860.7	15149.1	14482.3	14029.3	13693.8	13458.7	13324.1	13221.5	13298.5
10°	16922.8	16501.8	15608.5	14659.7	13935.3	13264.3	12809.1	12524.9	12277.0	12138.1	12247.1
12.5°	16989.0	16478.3	15326.5	14221.6	13283.5	12533.4	11909.4	11627.3	11383.7	11279.0	11345.3
15°	17277.5	16568.0	15063.6	13706.6	12640.3	11670.1	10996.9	10650.7	10458.4	10332.3	10360.1
17.5°	17773.3	16805.2	14894.8	13168.1	11922.2	10896.5	10024.6	9620.7	9302.3	9212.5	9189.0
20°	18478.5	17256.2	14894.8	12712.9	11108.0	10037.4	9033.0	8351.3	7855.6	7669.6	7812.8
22.5°	19662.4	18023.3	15042.2	12300.5	10407.1	9146.3	7949.6	6908.9	6240.0	5968.6	6126.7
25°	21318.6	19209.4	15281.6	11939.3	9768.2	8120.5	6575.5	5378.8	4641.5	4318.8	4314.6
27.5°	23481.2	21023.7	15764.5	11644.4	9003.1	6793.5	5141.6	3989.8	3297.4	3102.9	3130.7
30°	25878.9	22989.7	16677.0	11217.0	8073.5	5308.3	3744.0	2931.9	2444.7	2188.3	2192.5
32.5°	28191.1	25026.2	17760.5	10939.2	6866.1	4002.6	2669.1	2092.1	1788.7	1636.9	1660.4
35°	30670.0	26782.8	18566.1	10473.4	5449.3	2893.5	1887.0	1568.5	1442.5	1363.4	1367.7
37.5°	33347.6	28714.7	19228.6	9849.4	4120.1	1987.4	1393.3	1344.2	1290.7	1190.3	1181.8
40°	36145.0	30952.1	19623.9	8840.7	2863.6	1376.2	1183.9	1239.5	1209.5	1079.2	1068.5
42.5°	38517.0	32678.8	19722.2	7505.1	1852.8	1115.5	1072.8	1158.2	1164.7	1032.2	1015.1
45°	40795.0	34217.4	19529.9	5746.4	1284.3	1049.3	1004.4	1121.9	1130.5	1010.8	983.0
47.5°	43344.5	36322.3	19181.6	3833.8	1062.1	991.6	980.9	1062.1	1092.0	993.7	959.5
50°	46441.0	38034.1	18149.4	2355.0	1002.2	955.2	955.2	1004.4	1045.0	959.5	942.4
52.5°	49616.5	39525.7	16621.5	1615.6	965.9	916.8	944.5	965.9	980.9	903.9	918.9
55°	51892.4	40848.5	14343.4	1299.3	944.5	891.1	957.4	914.6	893.3	827.0	812.1
57.5°	54418.3	42421.3	12014.1	1151.8	916.8	906.1	914.6	833.4	773.6	705.2	690.2
60°	56181.3	43267.5	9163.4	1083.5	884.7	891.1	844.1	735.1	626.1	577.0	566.3
62.5°	57720.0	43750.5	6716.5	995.8	854.8	852.7	765.0	628.3	515.0	461.6	453.0
65°	57487.0	42996.1	4353.0	925.3	831.3	803.5	686.0	538.5	429.5	388.9	384.7
67.5°	54924.8	39658.2	2741.8	852.7	790.7	741.5	615.5	480.8	395.3	348.3	344.1
70°	49546.0	35048.7	1677.5	758.6	703.1	656.1	544.9	450.9	374.0	318.4	307.7
72.5°	42111.4	30018.2	1186.0	668.9	613.3	557.8	461.6	429.5	356.9	286.4	277.8
75°	34597.8	22111.4	993.7	583.4	523.6	448.8	393.2	399.6	335.5	260.7	254.3
77.5°	24363.8	13785.7	925.3	476.5	412.4	356.9	339.8	365.4	307.7	239.3	232.9
80°	14219.5	7742.3	765.0	376.1	309.9	275.7	284.2	309.9	269.3	215.8	207.3
82.5°	5739.9	3064.4	538.5	292.8	226.5	220.1	232.9	252.2	222.2	181.6	177.4
85°	2049.4	957.4	305.6	192.3	145.3	151.7	149.6	179.5	160.3	132.5	130.4
87.5°	538.5	190.2	136.8	76.9	62.0	62.0	57.7	83.3	76.9	59.8	66.2
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)