

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: P510587

Luminaire Tested: **CTN-CA10-760-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510587
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: McGRAW-EDISON
Catalog Number: CTN-CA10-760-727-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 89545 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

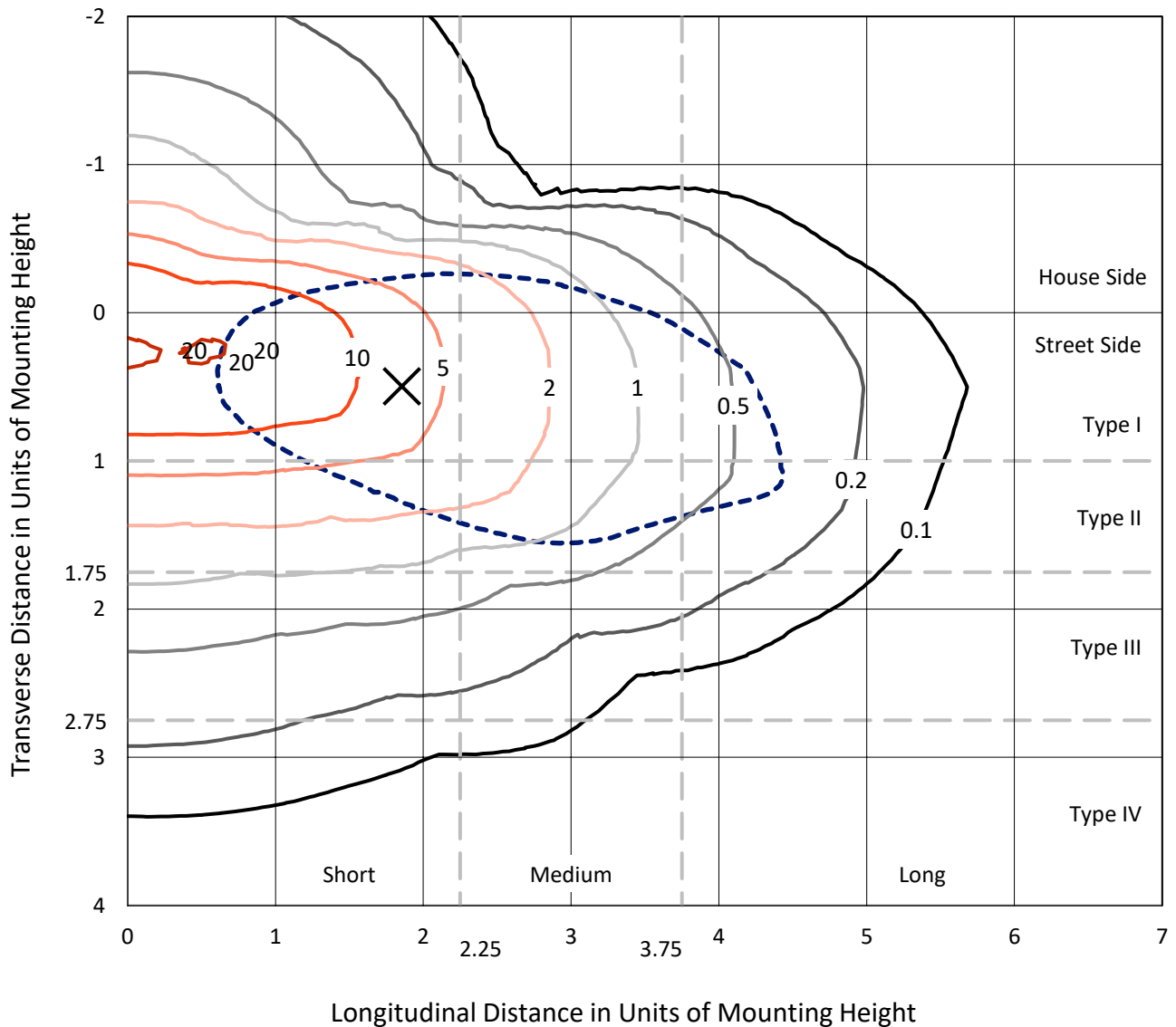
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

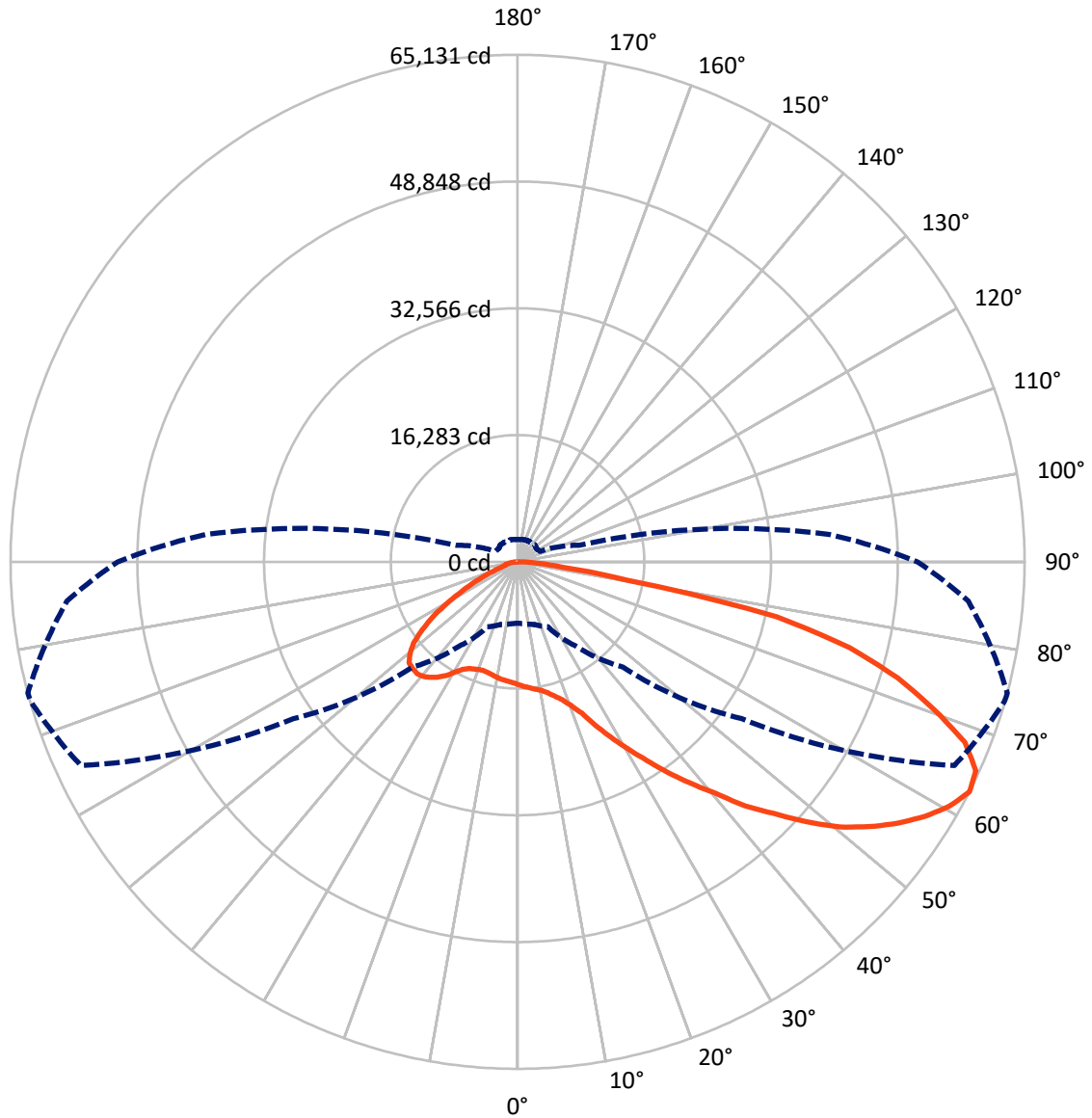
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.6 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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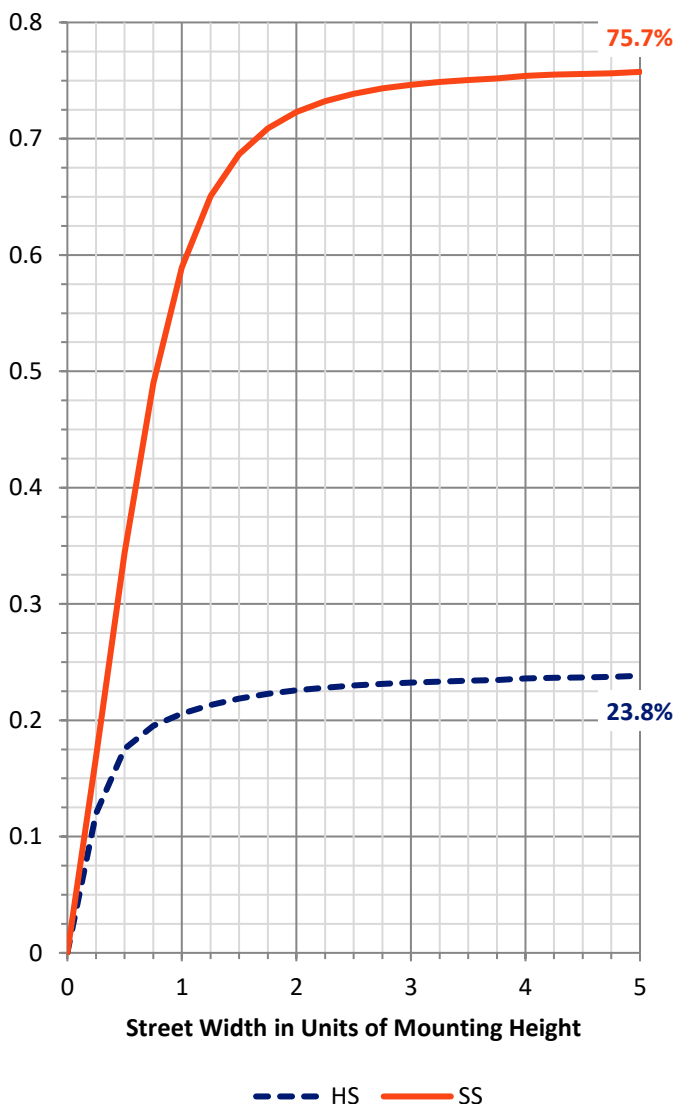
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21695.2	0.0	21695.2
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	67849.8	0.0	67849.8
	% Fixture	75.8	0.0	75.8
Total	Lumens	89545.0	0.0	89545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1518.5	1.7
10°-20°	4608.7	5.1
20°-30°	7948.8	8.9
30°-40°	11720.7	13.1
40°-50°	15450.4	17.3
50°-60°	18183.7	20.3
60°-70°	18091.0	20.2
70°-80°	10550.2	11.8
80°-90°	1473.1	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°	89545.0	100.0
0°-180°	89545.0	100.0

Coefficient of Utilization



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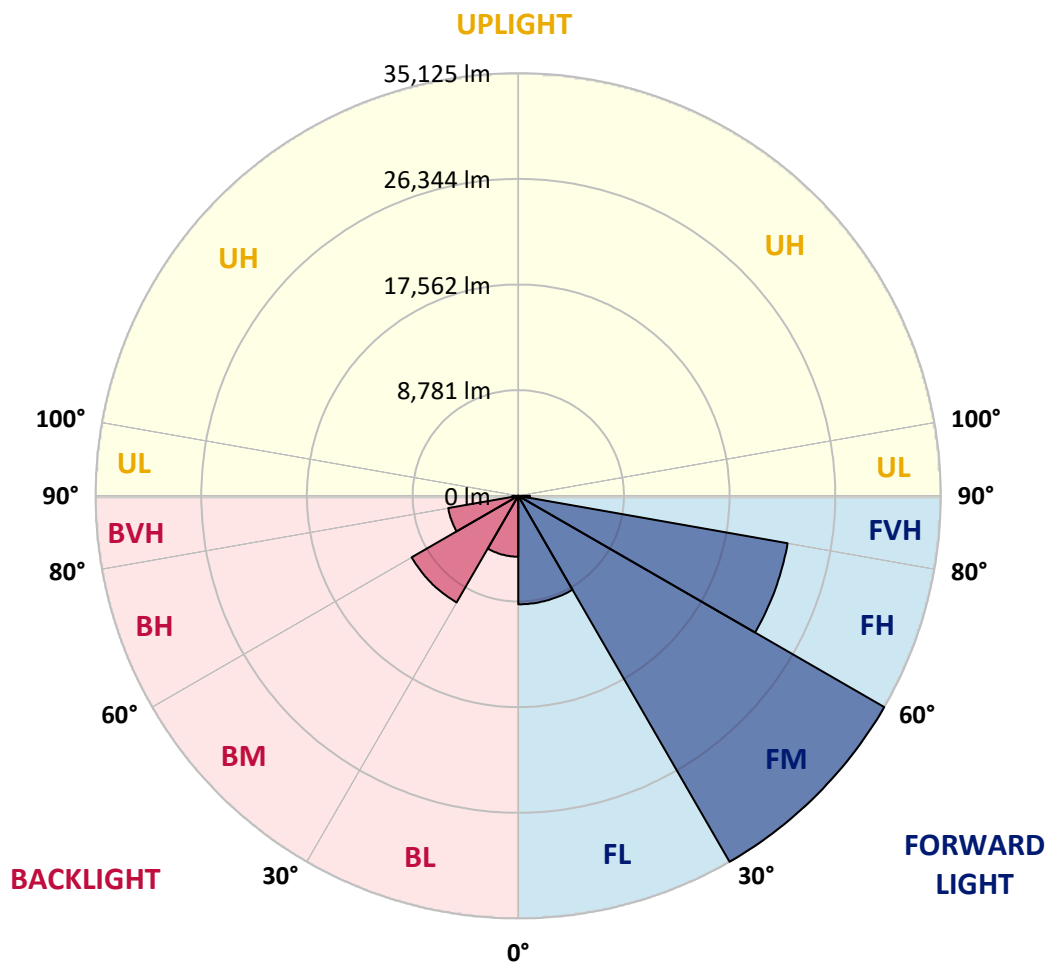
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9016.8	10.1			
FM (30°-60°)	35124.8	39.2			
FH (60°-80°)	22730.7	25.4			G5
FVH (80°-90°)	977.5	1.1			G5
BL (0°-30°)	5059.2	5.6	B5		
BM (30°-60°)	10229.9	11.4	B5		
BH (60°-80°)	5910.5	6.6	B5		G5
BVH (80°-90°)	495.6	0.6			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°	74°	75°	85°
0°	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7
2.5°	16649.1	16580.9	16590.1	16542.2	16470.3	16416.9	16276.8	16125.7	16035.4	16028.0	15899.0
5°	17485.8	17507.9	17513.4	17360.4	17209.3	17037.9	16824.2	16533.0	16295.2	16258.4	16007.7
7.5°	18248.7	18246.9	18235.8	18151.1	18081.0	17826.7	17399.1	16942.1	16555.1	16520.1	16112.8
10°	19030.1	19024.6	18914.0	18772.1	18613.6	18379.6	18012.8	17465.5	16838.9	16792.8	16210.5
12.5°	19881.6	19820.8	19750.7	19579.3	19391.4	18985.9	18600.7	18005.5	17351.2	17268.3	16383.7
15°	20583.7	20521.1	20423.4	20307.3	20110.1	19800.5	19391.4	18685.5	17983.4	17902.3	16772.6
17.5°	21278.5	21249.0	21179.0	21055.5	20904.4	20637.2	20261.2	19662.3	18742.6	18643.1	17419.4
20°	21848.0	21778.0	21726.4	21783.5	21796.4	21599.2	21392.8	20889.7	19876.1	19723.1	18213.7
22.5°	22172.4	22157.6	22439.6	22649.7	22734.4	22778.7	22714.2	22308.7	21390.9	21123.7	19319.5
25°	22480.1	22456.2	22839.5	23364.7	23864.2	24118.5	24289.9	24343.3	23501.1	23259.7	21097.9
27.5°	22489.3	22555.7	23112.2	23993.2	24754.3	25530.2	26352.1	26446.1	25707.1	25515.4	23121.5
30°	22539.1	22568.6	23119.6	24131.4	25716.3	26960.3	28031.0	28560.0	27922.3	27833.8	25349.6
32.5°	21907.0	21945.7	22802.6	24372.8	26442.4	28440.2	29861.1	30646.2	30487.7	30375.3	27727.0
35°	21249.0	21282.2	22277.4	24030.0	26982.4	29783.7	31514.2	33056.7	33346.1	33261.3	30378.9
37.5°	20217.0	20327.6	21370.7	23620.9	27076.4	30771.5	33091.7	35458.1	36331.6	36077.3	33183.9
40°	19096.5	19177.6	20392.1	22763.9	26971.4	31420.2	34641.7	38115.6	39173.4	39037.1	35968.6
42.5°	17681.1	17898.6	19114.9	21669.2	26431.4	31823.8	36075.5	41128.8	42665.8	42848.2	38526.6
45°	16488.7	16483.2	17612.9	20084.3	25452.8	31919.6	37395.0	44175.2	46423.5	46080.7	41908.3
47.5°	15086.3	15143.4	16322.9	18506.8	24009.8	31615.6	38423.4	47776.2	50052.3	49866.1	44682.0
50°	11840.9	12251.8	14485.5	17150.4	22058.1	30767.8	39280.3	51283.4	53456.2	53540.9	47203.1
52.5°	10208.0	10366.5	11599.4	15784.7	20325.7	29345.1	40220.2	55229.1	56745.8	56530.2	50065.2
55°	9553.8	9638.6	10230.1	13331.8	18650.5	27142.7	40671.7	58832.0	59311.2	59276.2	52420.4
57.5°	9080.1	9144.6	9564.8	11125.8	16811.3	24315.7	40290.2	61176.2	61920.8	61692.3	54643.0
60°	8396.4	8448.0	9074.6	10025.6	14918.6	21461.0	37944.2	62239.6	63813.5	63728.7	56607.6
62.5°	7882.2	7970.7	8320.9	9212.8	13302.3	19109.4	35148.5	61907.9	65055.6	65131.2	58107.7
65°	7338.6	7417.8	7714.5	8494.1	11837.2	17563.2	32133.4	60245.5	64484.3	64685.2	58351.0
67.5°	6667.7	6728.6	7080.6	7755.1	10125.1	16016.9	28733.2	57306.1	61314.4	61961.3	55929.4
70°	5823.7	5845.8	6277.0	6735.9	8407.5	13685.6	22846.9	52494.2	56727.4	56740.3	51357.1
72.5°	4635.0	4653.4	4767.7	5116.0	6315.7	10830.9	16792.8	43861.9	51150.7	51056.7	45644.0
75°	3151.4	3313.6	3709.8	4041.6	4555.7	7605.8	10443.9	29551.5	43336.6	44073.8	37492.7
77.5°	2489.8	2504.5	2668.6	2972.7	3416.8	5681.8	5853.2	16350.5	32308.5	34061.1	29470.4
80°	1736.0	1761.8	1673.4	1747.1	2382.9	3888.6	3420.5	7115.6	13473.7	14386.0	17694.0
82.5°	827.5	857.0	984.1	914.1	1185.0	1653.1	1806.1	3676.7	5820.0	5973.0	6888.9
85°	545.5	545.5	547.4	517.9	691.1	720.6	820.1	1568.3	2841.8	2937.6	2921.1
87.5°	175.1	193.5	188.0	219.3	265.4	239.6	250.6	492.1	974.9	965.7	807.2
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°	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7	15784.7
2.5°	15806.9	15731.3	15554.4	15399.6	15246.6	15130.5	15031.0	14898.3	14835.6	14778.5	14898.3
5°	15852.9	15718.4	15401.4	15084.4	14793.2	14579.5	14448.6	14352.8	14266.2	14266.2	14306.7
7.5°	15906.4	15723.9	15270.6	14820.9	14384.1	14140.8	13954.7	13833.1	13763.0	13766.7	13853.3
10°	15941.4	15661.3	15121.3	14515.0	14039.5	13648.8	13466.3	13291.2	13158.6	13079.3	13167.8
12.5°	15981.9	15641.0	14920.4	14236.7	13658.0	13215.7	12836.0	12705.2	12576.2	12476.7	12524.6
15°	16232.6	15718.4	14752.7	13882.8	13212.0	12661.0	12163.4	11923.8	11886.9	11818.7	11835.3
17.5°	16641.7	15926.6	14644.0	13449.7	12675.7	12025.2	11394.9	11085.3	11011.5	10976.5	10995.0
20°	17251.7	16322.9	14677.1	13145.7	12071.2	11343.3	10528.7	10165.6	9920.5	9935.3	10007.1
22.5°	18184.2	16962.4	14857.7	12812.1	11417.0	10462.3	9640.4	9146.5	8899.5	8846.1	8927.2
25°	19669.6	17992.6	15056.8	12493.3	10784.9	9511.4	8601.0	8066.5	7749.5	7729.3	7819.6
27.5°	21573.4	19572.0	15489.9	12216.8	9999.8	8368.8	7463.9	7006.8	6669.6	6629.0	6599.6
30°	23521.4	21326.4	16273.1	11796.6	9083.8	7189.3	6402.4	6044.8	5667.0	5514.1	5547.2
32.5°	25585.5	22961.1	17190.9	11501.8	8059.2	6151.7	5468.0	5127.0	4780.6	4559.4	4507.8
35°	27664.3	24586.6	17963.1	11061.3	7087.9	5327.9	4673.7	4321.7	4019.4	3838.8	3825.9
37.5°	30097.0	26278.4	18582.3	10593.2	6079.8	4682.9	3896.0	3693.2	3547.6	3389.2	3405.7
40°	32533.3	28250.4	19078.1	9819.2	5243.2	3990.0	3315.4	3356.0	3387.3	3254.6	3243.6
42.5°	34556.9	29907.1	19304.7	8816.6	4502.3	3387.3	3059.3	3243.6	3379.9	3293.3	3282.3
45°	36611.7	31302.3	19216.3	7572.6	3886.8	3099.8	3039.0	3227.0	3402.1	3381.8	3372.6
47.5°	38845.4	33130.4	19063.3	6155.4	3446.3	3072.2	3083.2	3171.7	3392.8	3429.7	3415.0
50°	41576.6	34813.0	18158.4	4793.5	3232.5	3116.4	3182.7	3136.7	3324.7	3400.2	3413.1
52.5°	44294.9	36108.6	16947.6	4154.0	3147.7	3158.8	3321.0	3164.3	3247.3	3313.6	3374.4
55°	46392.2	37428.2	14988.6	3768.8	3120.1	3179.1	3359.7	3223.3	3221.5	3221.5	3241.7
57.5°	48539.2	39195.5	13029.6	3520.0	3072.2	3201.2	3313.6	3234.4	3208.5	3171.7	3147.7
60°	50033.8	39849.8	10512.1	3356.0	3022.4	3169.8	3184.6	3173.5	3094.3	3059.3	3031.6
62.5°	51360.8	40205.5	8184.5	3168.0	2954.2	3096.1	3018.7	2994.8	2948.7	2863.9	2878.7
65°	51005.1	39442.5	6236.5	2956.1	2906.3	3007.7	2873.1	2816.0	2819.7	2731.2	2760.7
67.5°	48716.1	36020.2	4478.3	2631.7	2775.5	2832.6	2707.3	2664.9	2602.2	2558.0	2598.5
70°	44092.2	31930.7	3020.6	2183.9	2476.9	2600.4	2517.4	2443.7	2346.1	2316.6	2360.8
72.5°	37111.2	26654.4	2084.4	1756.3	2137.8	2298.1	2266.8	2191.2	2121.2	2193.1	2279.7
75°	30487.7	19719.4	1701.0	1439.3	1643.9	1914.8	2007.0	2029.1	2239.2	2939.5	3011.4
77.5°	21945.7	12224.2	1529.6	1170.3	1312.2	1531.5	1715.8	1791.3	2734.9	2618.8	2613.3
80°	12795.5	7124.8	1166.6	923.3	1061.5	1122.3	1341.7	2102.8	2359.0	2023.5	1973.8
82.5°	5838.4	3144.0	812.7	739.0	737.2	742.7	914.1	2023.5	1809.8	1594.1	1535.2
85°	2147.0	1105.8	493.9	427.6	490.2	425.7	599.0	1483.6	1048.6	1032.0	860.7
87.5°	528.9	226.7	167.7	140.1	114.3	108.7	182.5	488.4	256.2	234.1	224.8
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)