

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: P591040

Luminaire Tested: **CTN-CA10-760-730-U-T3-HSS-HM-EX120**

Issue Date: 12/14/2021

Test Information

Test Method: LM-79-08
Report Number: P591040
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-CA10-760-730-U-T3-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95218 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

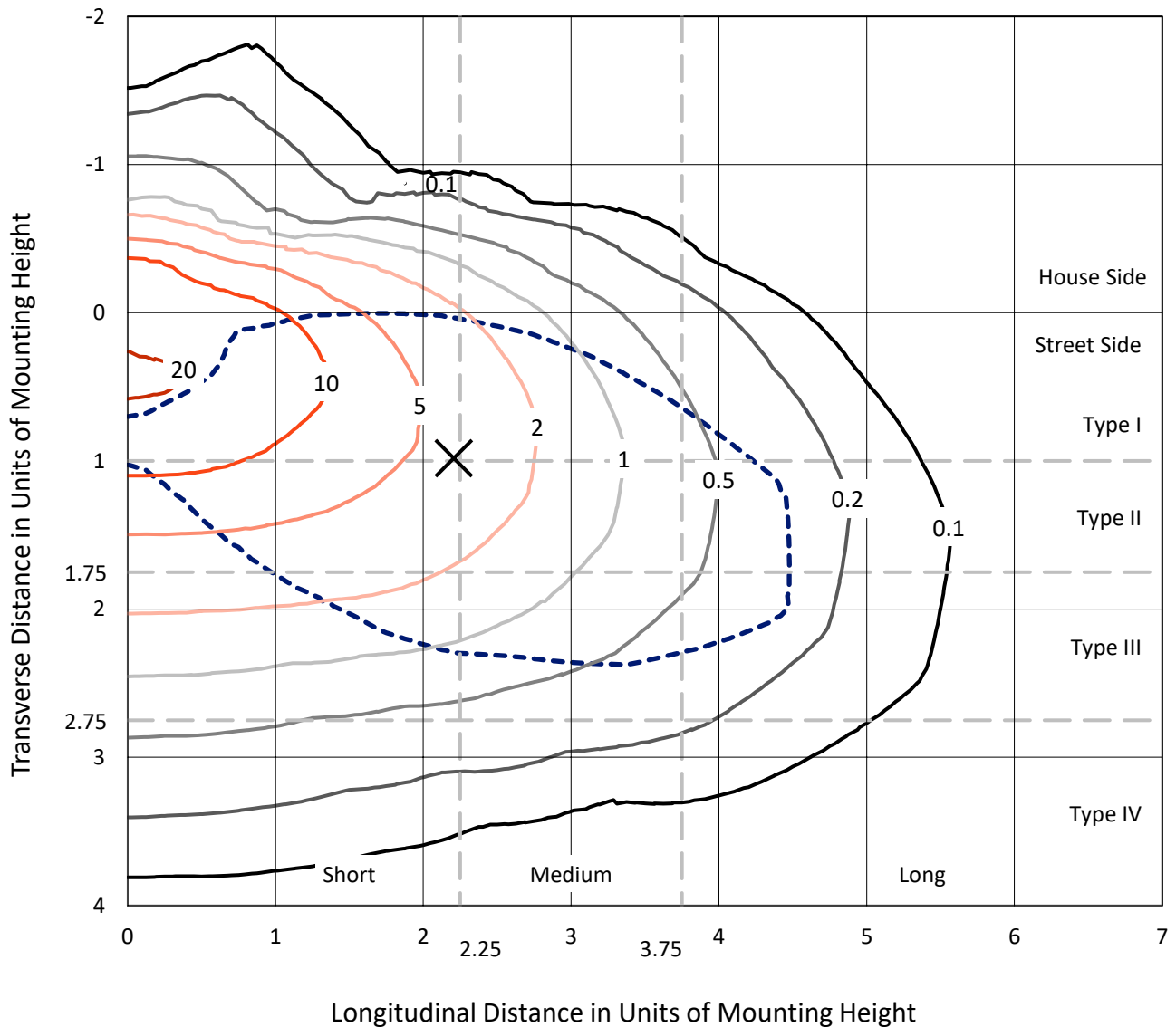
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

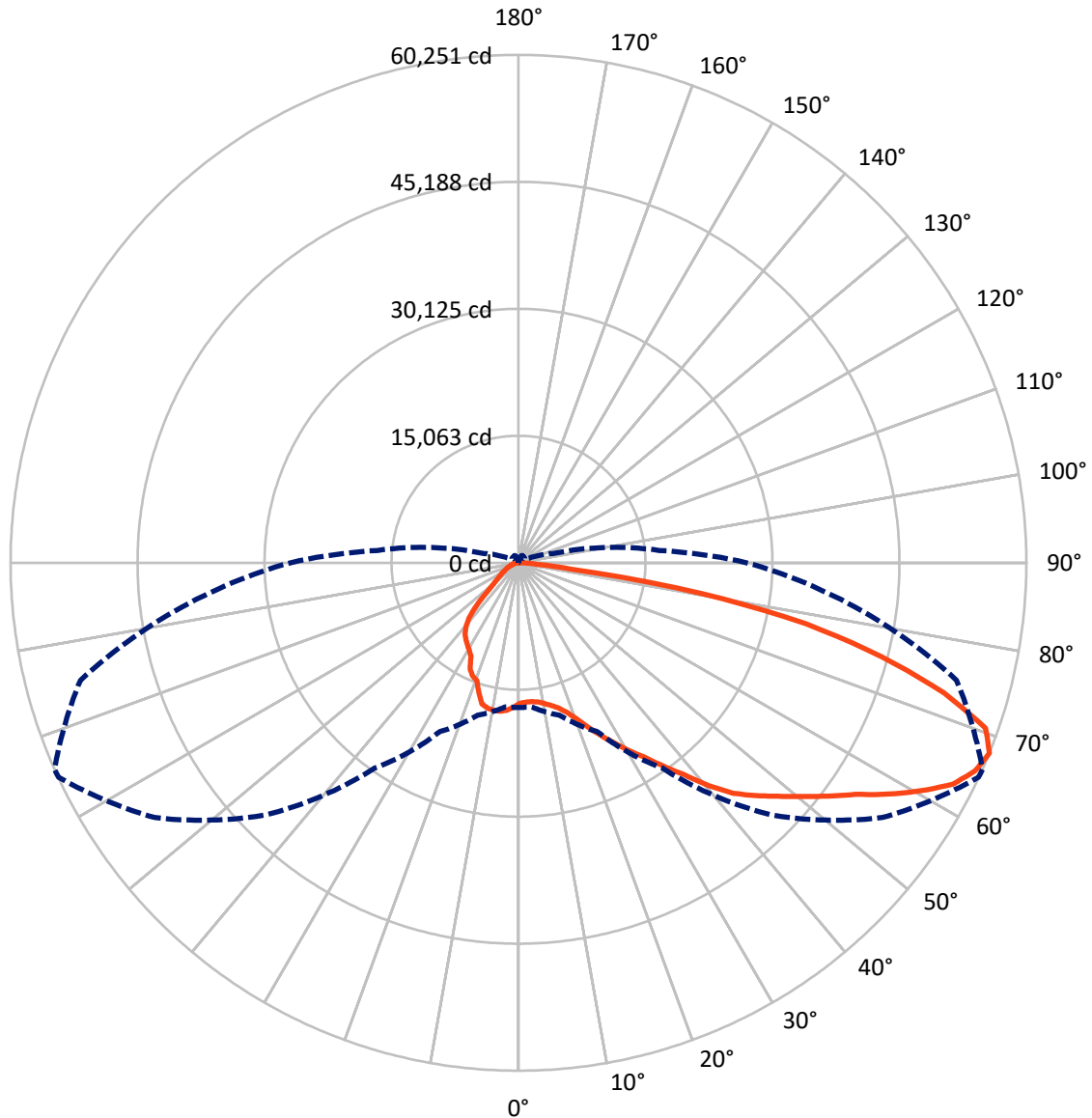
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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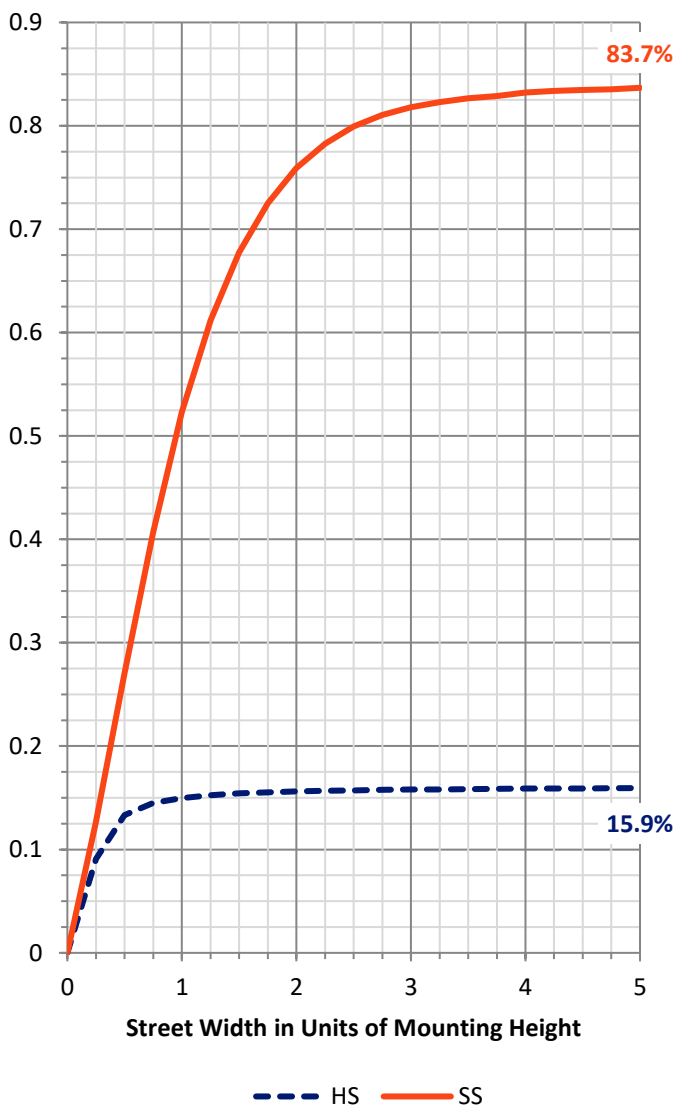
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15370.2	0.0	15370.2
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	79847.8	0.0	79847.8
	% Fixture	83.9	0.0	83.9
Total	Lumens	95218.0	0.0	95218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1652.2	1.7
10°-20°	4981.2	5.2
20°-30°	8097.4	8.5
30°-40°	11828.1	12.4
40°-50°	15754.0	16.5
50°-60°	19057.2	20.0
60°-70°	20402.8	21.4
70°-80°	12108.2	12.7
80°-90°	1336.9	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°	95218.0	100.0
0°-180°	95218.0	100.0

Coefficient of Utilization

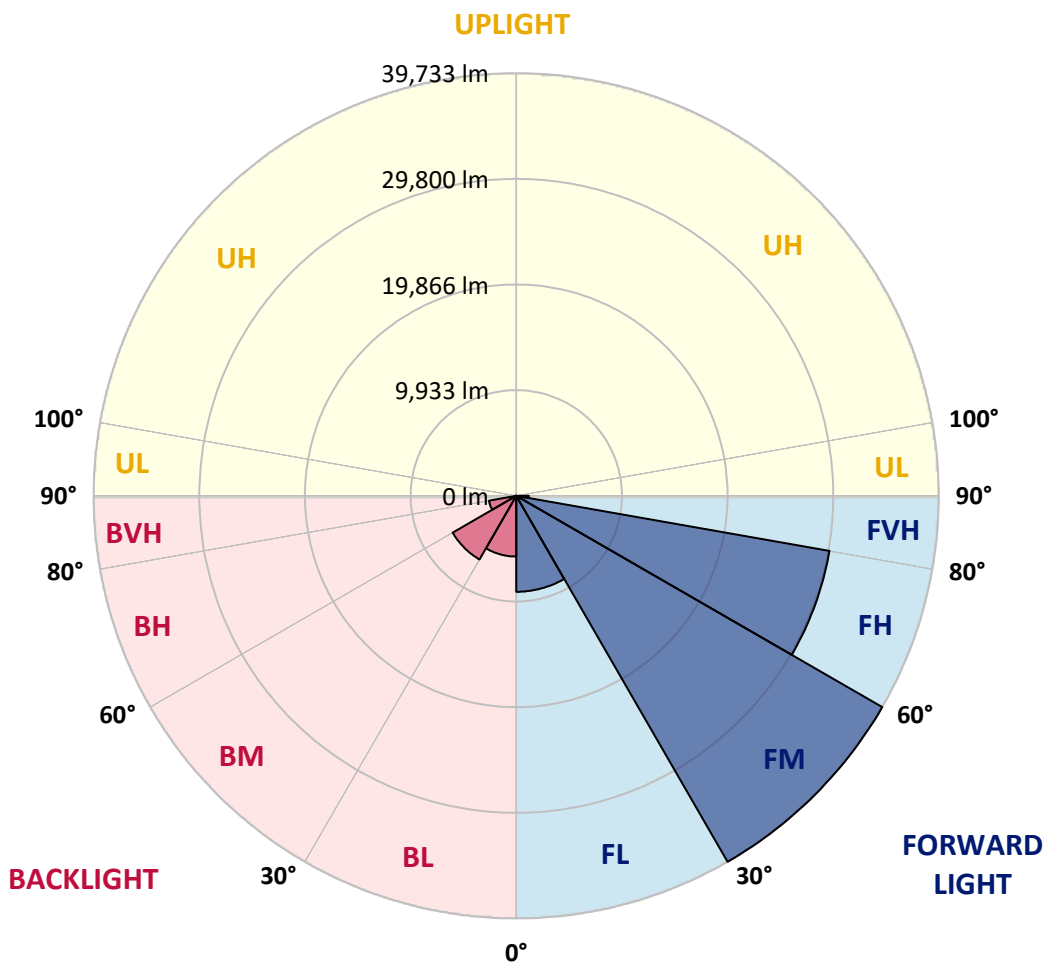


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9022.5	9.5			
FM (30°-60°)	39732.7	41.7			
FH (60°-80°)	29907.5	31.4			G5
FVH (80°-90°)	1185.2	1.2			G5
BL (0°-30°)	5708.3	6.0	B5		
BM (30°-60°)	6906.6	7.3	B4/8500		
BH (60°-80°)	2603.5	2.7	B4/5000		G4/5000
BVH (80°-90°)	151.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4
2.5°	16459.0	16366.0	16408.0	16517.5	16307.6	16441.0	16346.6	16511.5	16556.5	16574.5	16640.4
5°	16781.4	16658.4	16661.4	16730.4	16492.0	16550.5	16390.0	16505.5	16541.5	16589.5	16749.9
7.5°	17346.7	17210.2	17198.2	17216.2	16919.3	16853.4	16626.9	16650.9	16677.9	16706.4	16914.8
10°	18123.4	17983.9	17959.9	17913.4	17522.1	17349.7	17013.8	16961.3	16986.8	16940.3	17187.7
12.5°	19056.0	18888.1	18799.6	18666.1	18213.3	17943.4	17499.6	17355.7	17378.1	17280.7	17453.1
15°	20036.6	19858.2	19810.2	19604.8	19047.0	18678.1	18103.9	17884.9	17890.9	17778.5	17771.0
17.5°	21083.2	20924.2	20885.3	20754.8	20137.1	19697.7	18988.5	18691.6	18669.1	18558.2	18228.3
20°	22270.7	22170.3	22149.3	22074.3	21515.0	21000.7	20194.0	19795.2	19772.7	19597.3	18892.5
22.5°	23731.1	23612.7	23549.7	23485.2	23066.9	22531.6	21665.0	21102.7	21191.1	20895.8	19754.7
25°	25184.1	25089.6	25035.6	24993.6	24648.8	24142.0	23264.8	22605.1	22693.6	22377.2	20802.8
27.5°	26626.5	26418.1	26505.0	26604.0	26259.1	25855.8	24902.2	24184.0	24211.0	23869.1	22057.8
30°	27967.0	27857.5	28007.5	28100.4	27848.5	27533.6	26532.0	25837.8	25878.3	25472.0	23497.2
32.5°	29157.5	29000.1	29334.4	29515.9	29365.9	29106.5	28139.4	27481.2	27493.2	27247.3	25215.6
35°	30031.7	30042.2	30504.0	30991.3	30989.8	30623.9	29802.2	29496.4	29635.8	29526.4	27323.7
37.5°	30922.3	30842.8	31376.6	32100.8	32337.7	32012.4	31525.1	31706.5	31893.9	32229.8	29314.9
40°	31343.6	31346.6	31992.9	32829.6	33376.8	33315.4	33144.4	34357.5	34745.8	34846.3	28517.3
42.5°	30835.3	30871.3	32024.4	33504.3	34354.5	34679.8	35054.7	37120.9	37383.3	36815.0	29457.4
45°	30169.6	30219.1	31573.0	33736.7	35221.1	36137.2	37170.3	39185.5	39389.5	38633.8	30824.8
47.5°	29544.3	29635.8	31045.3	33597.3	35907.8	37779.1	39062.6	41130.3	41379.2	40382.1	32099.3
50°	28722.7	28926.6	30364.5	33226.9	36425.1	39208.0	40810.9	43470.9	43566.8	42088.4	33247.9
52.5°	27928.0	27988.0	29593.8	32753.1	36815.0	40503.5	42896.6	45875.9	45986.9	43956.7	34308.0
55°	26839.4	26929.4	28724.2	32159.3	37054.9	41589.1	45007.8	48382.9	48481.9	46201.3	35447.5
57.5°	25641.4	25707.4	27596.6	31247.7	36875.0	42553.2	47258.4	51540.7	51783.6	48510.4	36471.6
60°	24137.5	24224.4	26142.2	29983.7	36254.2	43677.8	50038.3	54915.8	54915.8	50630.5	37282.8
62.5°	22018.8	22140.3	24082.0	28163.4	34964.7	44328.5	52257.4	57854.7	57835.2	52300.9	37557.2
65°	19556.8	19576.3	21336.6	25602.4	32823.6	43982.2	53103.1	59571.5	59528.0	53509.4	37179.3
67.5°	17168.2	17147.2	18709.6	22099.8	29736.3	42277.3	52699.7	60198.3	60250.7	53800.3	35771.4
70°	13779.6	13752.6	15189.0	17959.9	25067.1	38605.3	50407.1	58607.4	58766.3	52138.9	33433.8
72.5°	9860.1	9819.6	10507.9	12340.1	18408.2	31757.5	44691.4	52492.8	52783.7	46817.5	29165.0
75°	5774.2	5817.7	6535.9	7590.0	10932.2	20891.3	36248.2	44084.1	44499.5	39827.3	22939.5
77.5°	3211.7	3202.7	3730.5	4523.7	5376.9	10462.9	25305.5	34717.3	34858.3	31208.7	15425.9
80°	1550.4	1542.9	1685.3	2126.2	3066.3	4700.6	12428.6	21570.5	21997.8	18967.5	7542.0
82.5°	1115.6	1121.6	1201.0	1166.5	1144.0	2073.7	4147.4	6793.8	6203.1	4787.6	2331.6
85°	838.2	838.2	910.1	839.7	820.2	1055.6	2016.7	2427.5	2330.1	2130.7	1385.5
87.5°	394.3	374.9	398.8	377.9	350.9	467.8	884.7	1025.6	949.1	827.7	605.8
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°	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4	16673.4
2.5°	16752.9	16785.9	16958.3	17183.2	17204.2	17397.6	17457.6	17697.5	17688.5	17622.6	17691.5
5°	16865.3	16965.8	17261.2	17577.6	17658.5	17901.4	17953.9	18189.3	18204.3	18123.4	18190.8
7.5°	17045.3	17192.2	17471.1	17784.5	17820.5	18036.4	18027.4	18250.8	18211.8	18141.3	18231.3
10°	17265.7	17379.6	17565.6	17772.5	17756.0	17928.4	17874.5	18034.9	17953.9	17896.9	18000.4
12.5°	17487.6	17492.1	17507.1	17637.5	17535.6	17574.6	17468.1	17586.6	17462.1	17366.2	17429.1
15°	17709.5	17583.6	17372.1	17291.2	17007.8	16862.3	16709.4	16851.9	16561.0	16408.0	16447.0
17.5°	18022.9	17720.0	17009.3	15980.7	15108.0	14626.7	14265.4	13986.5	13992.5	14130.4	14212.9
20°	18273.3	17121.7	15385.4	14749.7	14097.4	13217.3	11851.3	11476.5	11229.1	11224.6	11265.1
22.5°	18184.8	16489.0	15386.9	14392.8	12974.4	11215.6	10624.8	10281.4	9704.2	8470.2	8369.7
25°	18999.0	17049.8	15475.4	13655.1	11185.6	10293.4	9482.3	8815.0	7357.6	7128.2	7119.2
27.5°	19975.1	17807.0	15595.3	12062.7	10470.4	9266.3	8234.8	6622.9	5924.2	5825.2	5790.7
30°	21104.2	18699.1	14863.6	11552.9	9708.7	8071.3	6703.9	5086.0	4517.7	4483.2	4492.2
32.5°	22519.6	19717.2	14100.4	11133.1	8786.5	6687.4	4571.7	3879.0	3553.6	3198.2	3312.2
35°	24028.0	19131.0	14556.3	10614.3	7632.0	5029.0	3472.6	3081.3	2817.4	2357.1	2169.6
37.5°	23434.3	19534.3	15085.6	10044.5	6189.6	3409.7	2686.9	2348.1	2100.7	1716.8	1709.3
40°	24166.0	20688.8	15463.4	9126.9	4475.7	2418.5	1958.2	1817.3	1703.3	1490.4	1460.4
42.5°	25458.5	21696.4	15719.8	7949.9	2674.9	1799.3	1671.8	1692.8	1593.9	1430.4	1410.9
45°	26731.5	22578.1	15478.4	6155.1	1902.7	1622.4	1629.9	1620.9	1500.9	1440.9	1419.9
47.5°	27890.5	23323.3	14799.2	4060.4	1650.8	1581.9	1598.4	1557.9	1422.9	1388.5	1385.5
50°	28886.1	24110.5	11717.9	3111.3	1587.9	1527.9	1563.9	1497.9	1265.5	1228.0	1189.0
52.5°	29499.4	22801.5	10410.4	2390.1	1521.9	1443.9	1454.4	1508.4	1192.0	949.1	889.1
55°	29406.4	20540.4	9678.7	1989.7	1416.9	1327.0	1348.0	1434.9	1078.1	742.2	671.7
57.5°	29848.7	20354.5	8920.0	1692.8	1222.0	1202.5	1160.5	1307.5	980.6	491.8	466.3
60°	29776.8	20332.0	7960.4	1331.5	1079.6	1010.6	958.1	1064.6	703.2	182.9	166.4
62.5°	29659.8	19754.7	6870.3	1193.5	994.1	967.1	922.1	1042.1	598.3	127.4	94.5
65°	29073.5	18817.6	5634.8	1045.1	928.1	872.7	869.7	986.6	493.3	70.5	31.5
67.5°	27071.8	16776.9	4192.3	962.6	889.1	860.7	913.1	950.6	473.8	72.0	28.5
70°	24582.8	14085.4	2704.9	868.2	833.7	848.7	892.1	961.1	460.3	66.0	25.5
72.5°	20555.4	10896.2	1640.4	775.2	754.2	799.2	880.2	961.1	425.8	55.5	21.0
75°	15637.3	7267.6	1220.5	685.2	661.2	718.2	802.2	923.6	418.3	48.0	13.5
77.5°	9708.7	3432.1	962.6	575.8	550.3	608.8	673.2	761.7	424.3	46.5	7.5
80°	3927.0	1433.4	755.7	463.3	431.8	463.3	545.8	649.2	337.4	66.0	0.0
82.5°	1652.3	1009.1	617.8	368.9	344.9	304.4	371.9	481.3	265.4	52.5	0.0
85°	1093.1	700.2	442.3	250.4	220.4	148.4	181.4	217.4	151.4	0.0	0.0
87.5°	494.8	310.4	193.4	85.5	72.0	40.5	24.0	21.0	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)