

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: STREETWORKS

Report Number: P510537

Luminaire Tested: **CST-CA10-630-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510537
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: STREETWORKS
Catalog Number: CST-CA10-630-730-U-T2
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: 89932 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

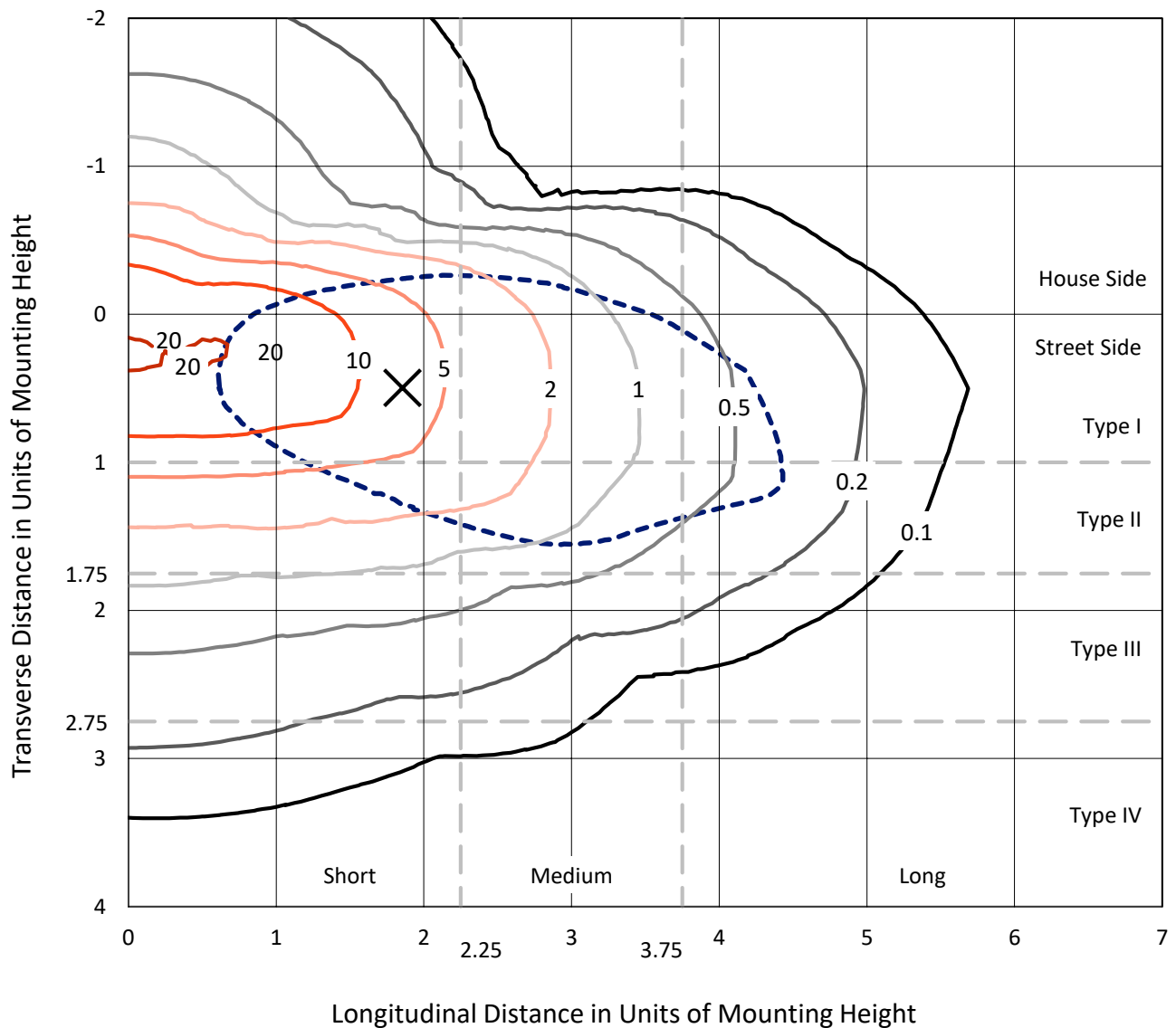
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

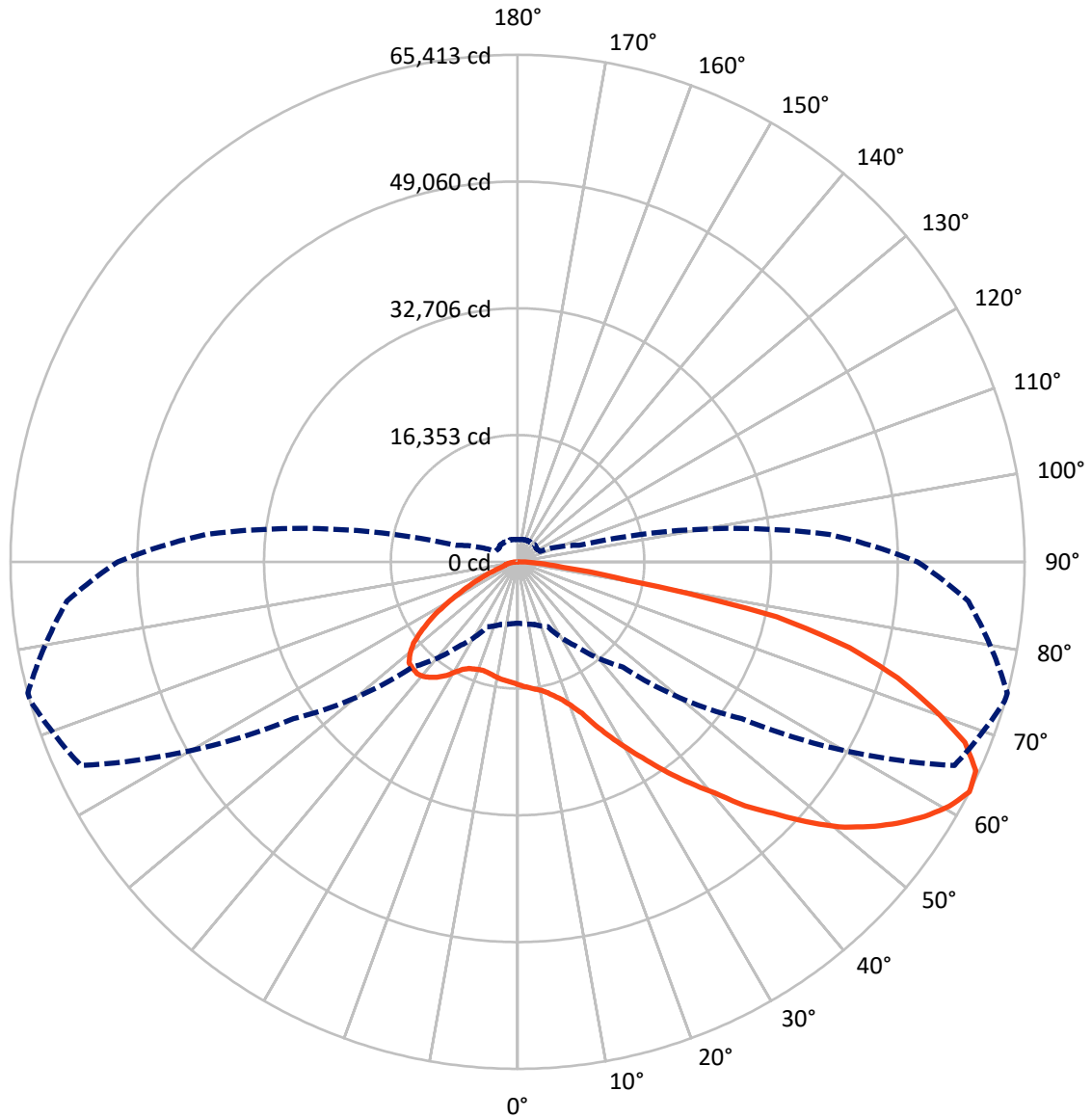
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.7 fc
 Type 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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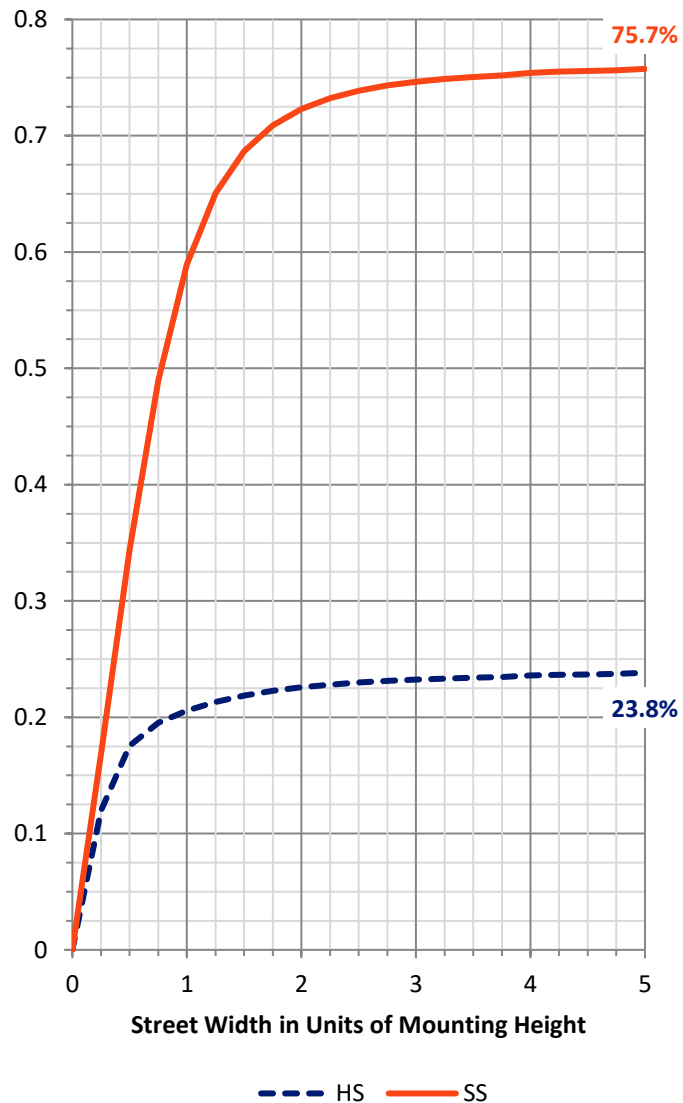
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21788.9	0.0	21788.9
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	68143.1	0.0	68143.1
	% Fixture	75.8	0.0	75.8
Total	Lumens	89932.0	0.0	89932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1525.1	1.7
10°-20°	4628.6	5.1
20°-30°	7983.2	8.9
30°-40°	11771.3	13.1
40°-50°	15517.2	17.3
50°-60°	18262.3	20.3
60°-70°	18169.2	20.2
70°-80°	10595.7	11.8
80°-90°	1479.5	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°	89932.0	100.0
0°-180°	89932.0	100.0

Coefficient of Utilization

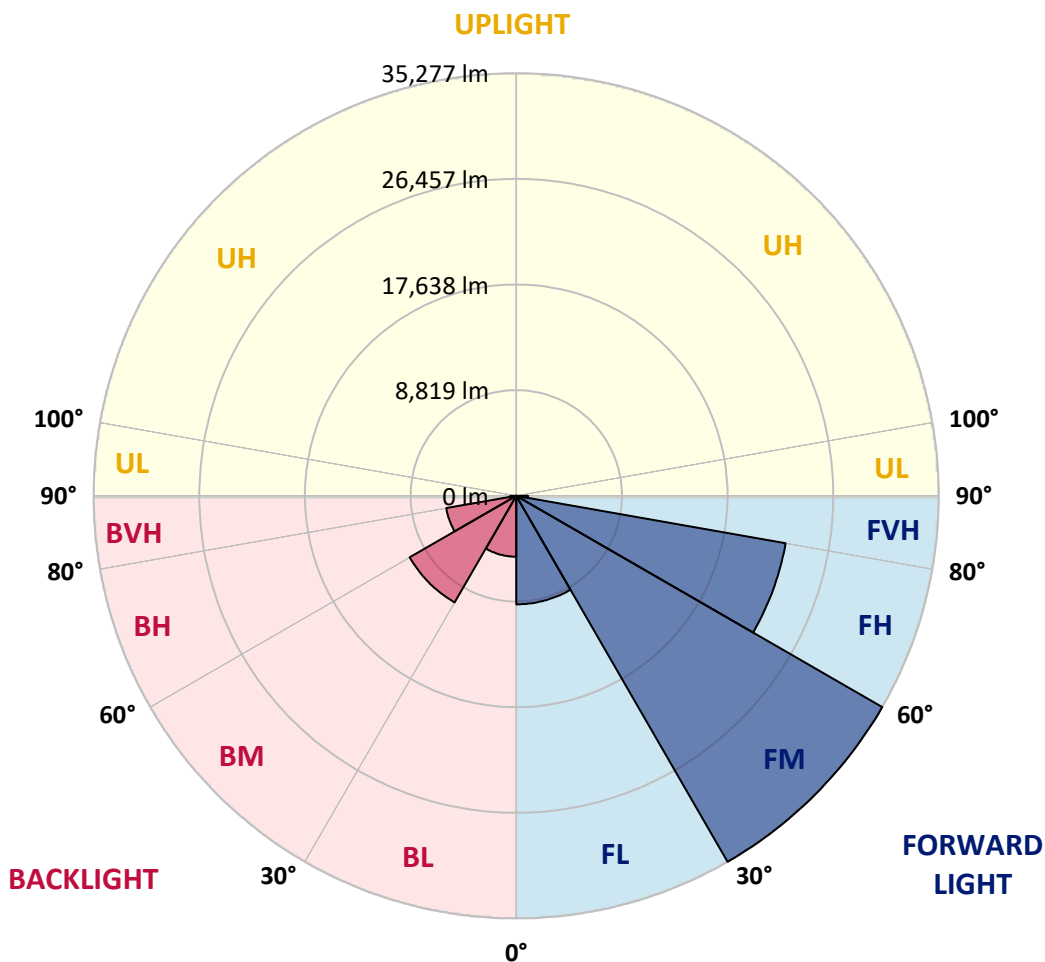


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9055.8	10.1			
FM (30°-60°)	35276.6	39.2			
FH (60°-80°)	22828.9	25.4			G5
FVH (80°-90°)	981.8	1.1			G5
BL (0°-30°)	5081.1	5.6	B5		
BM (30°-60°)	10274.1	11.4	B5		
BH (60°-80°)	5936.0	6.6	B5		G5
BVH (80°-90°)	497.7	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°	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0
2.5°	16721.0	16652.5	16661.8	16613.7	16541.5	16487.8	16347.1	16195.4	16104.7	16097.3	15967.7
5°	17561.3	17583.5	17589.1	17435.5	17283.7	17111.6	16896.9	16604.4	16365.7	16328.6	16076.9
7.5°	18327.6	18325.8	18314.7	18229.5	18159.2	17903.8	17474.3	17015.3	16626.6	16591.5	16182.4
10°	19112.4	19106.8	18995.8	18853.3	18694.1	18459.0	18090.7	17541.0	16911.7	16865.4	16280.5
12.5°	19967.5	19906.4	19836.1	19664.0	19475.2	19068.0	18681.1	18083.3	17426.2	17342.9	16454.5
15°	20672.7	20609.8	20511.7	20395.1	20197.0	19886.1	19475.2	18766.3	18061.1	17979.6	16845.0
17.5°	21370.5	21340.9	21270.5	21146.5	20994.8	20726.4	20348.8	19747.3	18823.7	18723.7	17494.7
20°	21942.4	21872.1	21820.3	21877.6	21890.6	21692.5	21485.2	20980.0	19962.0	19808.3	18292.4
22.5°	22268.2	22253.4	22536.6	22747.6	22832.7	22877.1	22812.3	22405.1	21483.4	21215.0	19403.0
25°	22577.3	22553.2	22938.2	23465.7	23967.3	24222.7	24394.9	24448.5	23602.7	23360.2	21189.1
27.5°	22586.5	22653.2	23212.1	24096.9	24861.3	25640.5	26466.0	26560.4	25818.2	25625.7	23221.4
30°	22636.5	22666.1	23219.5	24235.7	25827.5	27076.8	28152.2	28683.4	28043.0	27954.1	25459.1
32.5°	22001.6	22040.5	22901.2	24478.2	26556.7	28563.1	29990.1	30778.6	30619.4	30506.5	27846.8
35°	21340.9	21374.2	22373.7	24133.9	27099.0	29912.4	31650.4	33199.6	33490.2	33405.0	30510.2
37.5°	20304.4	20415.4	21463.0	23723.0	27193.4	30904.5	33234.8	35611.3	36488.6	36233.2	33327.3
40°	19179.0	19260.5	20480.2	22862.3	27087.9	31556.0	34791.4	38280.3	39342.7	39205.8	36124.0
42.5°	17757.5	17975.9	19197.5	21762.9	26545.6	31961.3	36231.4	41306.5	42850.2	43033.4	38693.1
45°	16560.0	16554.4	17689.1	20171.1	25562.8	32057.6	37556.6	44366.1	46624.2	46279.9	42089.5
47.5°	15151.5	15208.8	16393.4	18586.7	24113.5	31752.2	38589.4	47982.7	50268.6	50081.7	44875.1
50°	11892.0	12304.8	14548.1	17224.5	22153.4	30900.8	39450.1	51505.0	53687.2	53772.3	47407.1
52.5°	10252.1	10411.3	11649.6	15853.0	20413.6	29471.9	40394.0	55467.8	56991.1	56774.5	50281.5
55°	9595.1	9680.2	10274.3	13389.4	18731.1	27260.1	40847.5	59086.3	59567.5	59532.3	52647.0
57.5°	9119.4	9184.2	9606.2	11173.9	16883.9	24420.8	40464.4	61440.6	62188.4	61958.9	54879.2
60°	8432.7	8484.5	9113.8	10068.9	14983.0	21553.7	38108.2	62508.6	64089.3	64004.1	56852.2
62.5°	7916.3	8005.1	8356.8	9252.6	13359.8	19192.0	35300.4	62175.4	65336.8	65412.7	58358.9
65°	7370.3	7449.9	7747.9	8530.8	11888.3	17639.1	32272.3	60505.9	64763.0	64964.7	58603.2
67.5°	6696.6	6757.6	7111.2	7788.6	10168.8	16086.2	28857.4	57553.7	61579.4	62229.1	56171.1
70°	5848.8	5871.1	6304.2	6765.0	8443.8	13744.8	22945.6	52721.0	56972.6	56985.5	51579.0
72.5°	4655.0	4673.5	4788.3	5138.1	6343.0	10877.7	16865.4	44051.4	51371.7	51277.3	45841.2
75°	3165.0	3327.9	3725.9	4059.0	4575.4	7638.7	10489.0	29679.2	43523.9	44264.3	37654.7
77.5°	2500.6	2515.4	2680.1	2985.5	3431.6	5706.3	5878.5	16421.2	32448.1	34208.3	29597.7
80°	1743.5	1769.5	1680.6	1754.7	2393.2	3905.4	3435.3	7146.3	13531.9	14448.1	17770.5
82.5°	831.1	860.7	988.4	918.0	1190.1	1660.3	1813.9	3692.5	5845.1	5998.8	6918.7
85°	547.9	547.9	549.7	520.1	694.1	723.7	823.7	1575.1	2854.1	2950.3	2933.7
87.5°	175.8	194.3	188.8	220.3	266.5	240.6	251.7	494.2	979.1	969.9	810.7
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°	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0	15853.0
2.5°	15875.2	15799.3	15621.6	15466.1	15312.5	15195.9	15095.9	14962.7	14899.7	14842.4	14962.7
5°	15921.4	15786.3	15468.0	15149.6	14857.2	14642.5	14511.1	14414.8	14327.8	14327.8	14368.5
7.5°	15975.1	15791.9	15336.6	14884.9	14446.3	14202.0	14015.0	13892.9	13822.5	13826.2	13913.2
10°	16010.3	15728.9	15186.6	14577.7	14100.2	13707.8	13524.5	13348.7	13215.4	13135.8	13224.7
12.5°	16051.0	15708.6	14984.9	14298.2	13717.0	13272.8	12891.5	12760.1	12630.5	12530.6	12578.7
15°	16302.7	15786.3	14816.5	13942.8	13269.1	12715.7	12215.9	11975.3	11938.3	11869.8	11886.5
17.5°	16713.6	15995.5	14707.3	13507.9	12730.5	12077.1	11444.1	11133.2	11059.1	11024.0	11042.5
20°	17326.3	16393.4	14740.6	13202.5	12123.4	11392.3	10574.2	10209.6	9963.4	9978.2	10050.4
22.5°	18262.8	17035.7	14922.0	12867.5	11466.3	10507.6	9682.1	9186.0	8938.0	8884.3	8965.8
25°	19754.7	18070.3	15121.9	12547.3	10831.5	9552.5	8638.1	8101.4	7783.0	7762.7	7853.4
27.5°	21666.6	19656.6	15556.8	12269.6	10043.0	8404.9	7496.1	7037.1	6698.4	6657.7	6628.1
30°	23623.0	21418.6	16343.4	11847.6	9123.1	7220.4	6430.0	6071.0	5691.5	5537.9	5571.2
32.5°	25696.0	23060.4	17265.2	11551.5	8094.0	6178.3	5491.6	5149.2	4801.2	4579.1	4527.3
35°	27783.9	24692.9	18040.7	11109.1	7118.6	5351.0	4693.9	4340.4	4036.8	3855.4	3842.5
37.5°	30227.0	26392.0	18662.6	10639.0	6106.1	4703.1	3912.8	3709.2	3563.0	3403.8	3420.5
40°	32673.9	28372.4	19160.5	9861.6	5265.8	4007.2	3329.8	3370.5	3402.0	3268.7	3257.6
42.5°	34706.2	30036.4	19388.2	8854.7	4521.7	3402.0	3072.5	3257.6	3394.6	3307.6	3296.5
45°	36770.0	31437.5	19299.3	7605.3	3903.5	3113.2	3052.1	3240.9	3416.8	3396.4	3387.1
47.5°	39013.3	33273.6	19145.7	6182.0	3461.2	3085.5	3096.6	3185.4	3407.5	3444.5	3429.7
50°	41756.3	34963.5	18236.9	4814.2	3246.5	3129.9	3196.5	3150.2	3339.0	3414.9	3427.9
52.5°	44486.4	36264.7	17020.9	4171.9	3161.3	3172.4	3335.3	3178.0	3261.3	3327.9	3389.0
55°	46592.7	37589.9	15053.4	3785.1	3133.6	3192.8	3374.2	3237.2	3235.4	3235.4	3255.7
57.5°	48749.0	39364.9	13085.9	3535.2	3085.5	3215.0	3327.9	3248.3	3222.4	3185.4	3161.3
60°	50250.1	40022.0	10557.5	3370.5	3035.5	3183.5	3198.4	3187.2	3107.7	3072.5	3044.7
62.5°	51582.7	40379.2	8219.8	3181.7	2967.0	3109.5	3031.8	3007.7	2961.4	2876.3	2891.1
65°	51225.5	39613.0	6263.4	2968.8	2918.9	3020.7	2885.6	2828.2	2831.9	2743.0	2772.6
67.5°	48926.7	36175.8	4497.7	2643.1	2787.5	2844.8	2719.0	2676.4	2613.5	2569.0	2609.8
70°	44282.8	32068.7	3033.6	2193.3	2487.6	2611.6	2528.3	2454.3	2356.2	2326.6	2371.0
72.5°	37271.6	26769.6	2093.4	1763.9	2147.0	2308.1	2276.6	2200.7	2130.4	2202.6	2289.6
75°	30619.4	19804.6	1708.4	1445.6	1651.0	1923.1	2015.6	2037.8	2248.8	2952.2	3024.4
77.5°	22040.5	12277.0	1536.2	1175.3	1317.8	1538.1	1723.2	1799.1	2746.7	2630.1	2624.6
80°	12850.8	7155.6	1171.6	927.3	1066.1	1127.2	1347.5	2111.9	2369.2	2032.3	1982.3
82.5°	5863.7	3157.6	816.2	742.2	740.4	745.9	918.0	2032.3	1817.6	1601.0	1541.8
85°	2156.3	1110.5	496.0	429.4	492.3	427.6	601.5	1490.0	1053.2	1036.5	864.4
87.5°	531.2	227.7	168.4	140.7	114.8	109.2	183.2	490.5	257.3	235.1	225.8
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)