

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: P721908

Luminaire Tested: **CST-CA8-430-730-U-T2-HSS**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-730-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58277 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

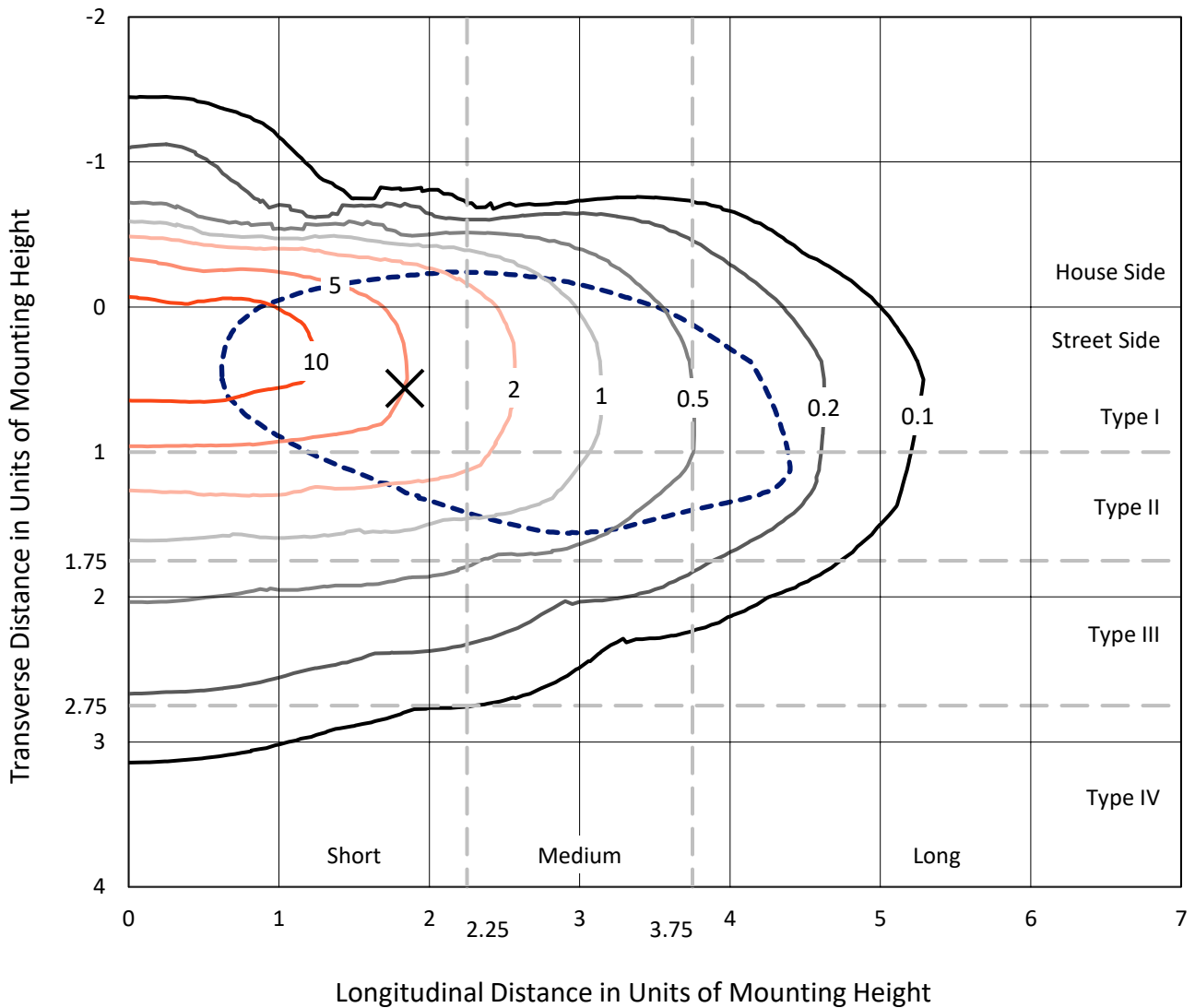
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

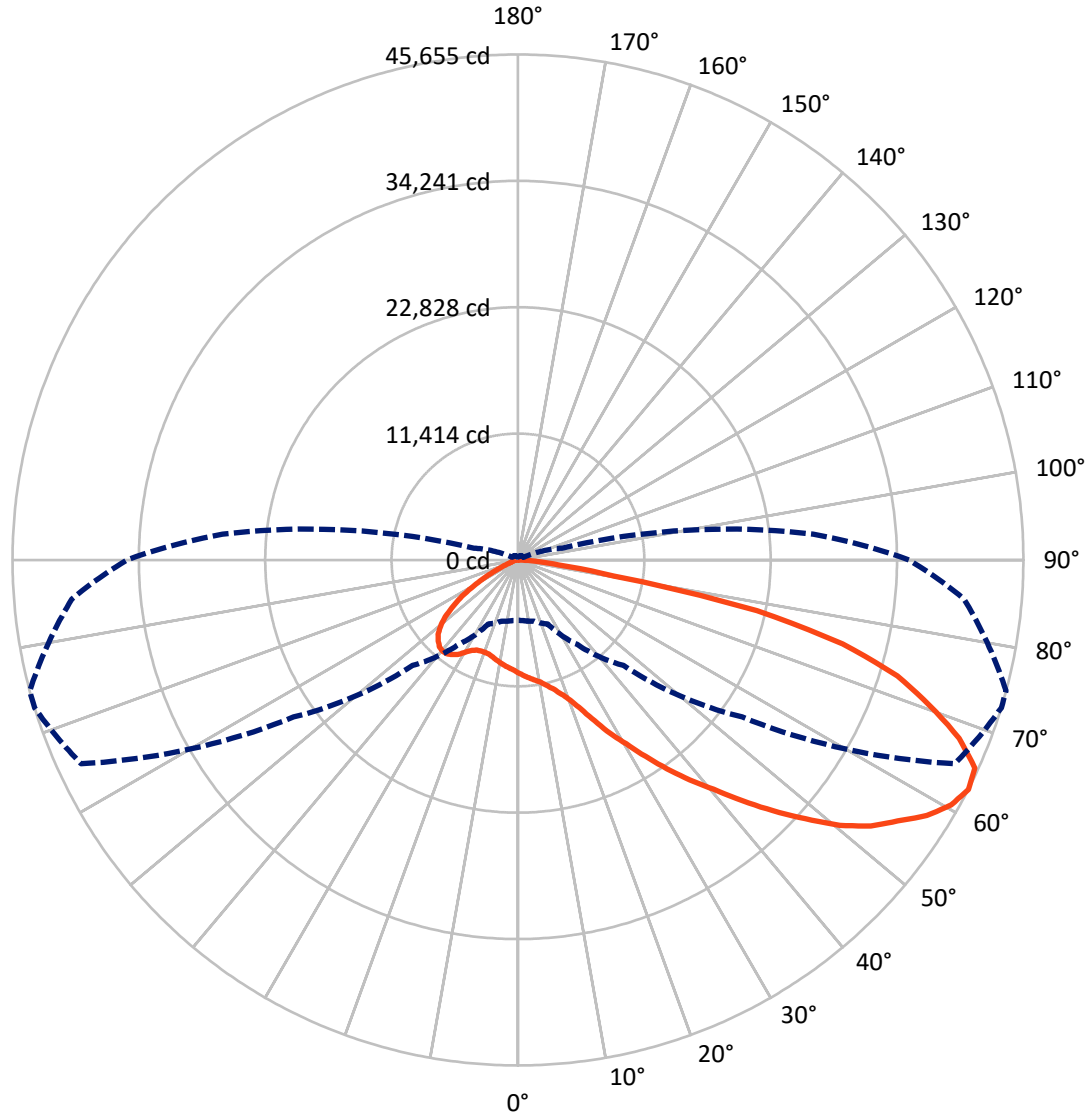
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 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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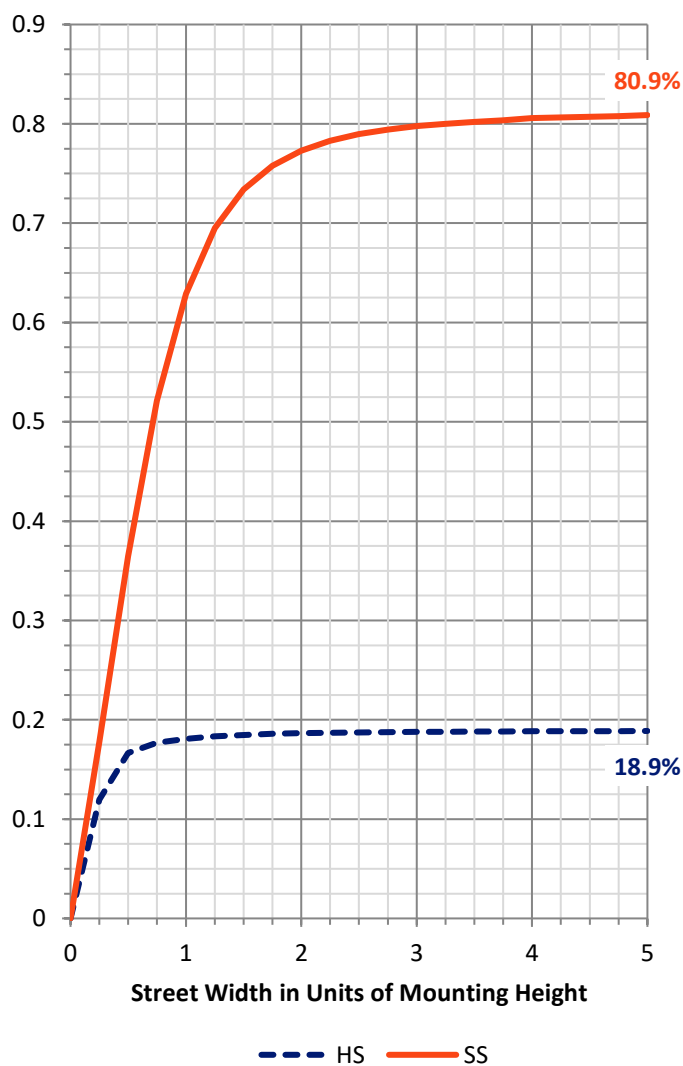
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11148.1	0.0	11148.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	47128.9	0.0	47128.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	58277.0	0.0	58277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.2	1.7
10°-20°	2936.1	5.0
20°-30°	5073.1	8.7
30°-40°	7628.6	13.1
40°-50°	10172.0	17.5
50°-60°	11979.6	20.6
60°-70°	11909.8	20.4
70°-80°	6837.7	11.7
80°-90°	763.8	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°	58277.0	100.0
0°-180°	58277.0	100.0

Coefficient of Utilization

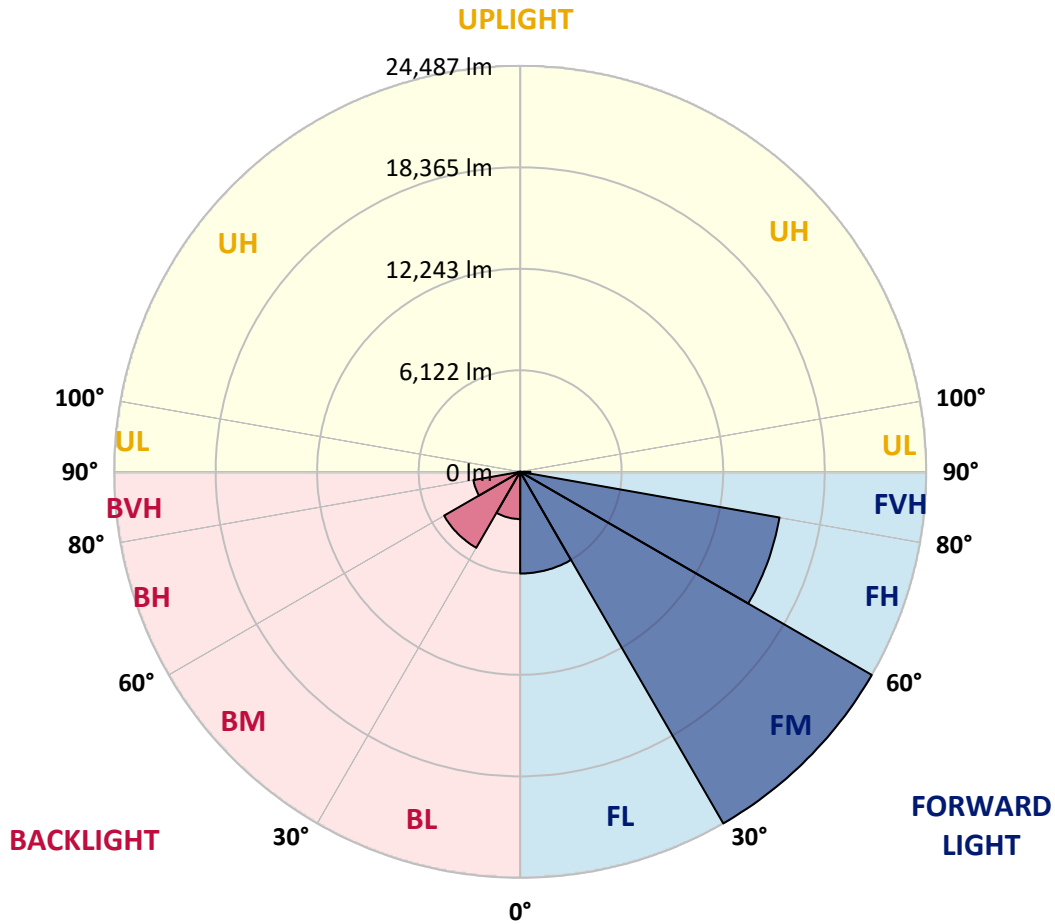


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6136.5	10.5			
FM (30°-60°)	24486.6	42.0			
FH (60°-80°)	15885.4	27.3			G5
FVH (80°-90°)	620.4	1.1			G4/750
BL (0°-30°)	2848.9	4.9	B4/5000		
BM (30°-60°)	5293.6	9.1	B4/8500		
BH (60°-80°)	2862.1	4.9	B4/5000		G4/5000
BVH (80°-90°)	143.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5
2.5°	10934.7	10962.2	10929.5	10915.1	10899.4	10797.3	10678.3	10556.6	10458.5	10442.8	10314.6
5°	11702.6	11717.0	11663.3	11601.8	11495.9	11327.1	11113.9	10903.3	10707.1	10654.8	10420.6
7.5°	12292.5	12265.1	12252.0	12199.7	12106.8	11921.0	11597.9	11252.6	10949.1	10875.8	10520.0
10°	12845.9	12834.1	12734.7	12669.3	12521.5	12350.1	12084.6	11646.3	11218.6	11100.8	10606.4
12.5°	13445.0	13418.8	13378.3	13237.0	13116.7	12827.6	12507.1	12108.1	11631.9	11475.0	10754.2
15°	13984.0	13913.3	13891.1	13743.3	13621.6	13400.5	13078.7	12615.7	12106.8	11972.1	11035.4
17.5°	14496.8	14464.0	14414.3	14313.6	14177.6	14007.5	13749.8	13254.0	12728.2	12531.9	11512.9
20°	14932.4	14891.8	14848.6	14876.1	14846.0	14737.4	14575.2	14152.7	13510.4	13320.7	12093.7
22.5°	15235.8	15234.5	15407.2	15507.9	15565.5	15561.6	15522.3	15282.9	14636.7	14444.4	12962.3
25°	15488.3	15507.9	15726.4	16109.7	16452.4	16483.8	16761.1	16647.3	16097.9	15897.8	14269.1
27.5°	15562.9	15602.1	15998.5	16601.5	17122.2	17621.9	18028.7	18236.7	17727.8	17488.5	15674.1
30°	15616.5	15632.2	16020.7	16742.8	17840.3	18631.8	19359.1	19711.0	19272.8	19097.5	17239.9
32.5°	15238.5	15243.7	15838.9	16932.5	18367.5	19739.8	20600.5	21263.7	21148.6	20917.1	18952.3
35°	14717.8	14814.6	15497.5	16749.4	18801.8	20757.5	21929.6	22918.5	23148.8	22982.6	20663.3
37.5°	14074.2	14150.1	14881.3	16477.3	18897.3	21457.3	22963.0	24600.8	25202.5	25175.1	22728.8
40°	13282.8	13375.7	14250.8	15891.2	18850.2	21966.2	24175.6	26463.6	27227.5	27141.2	24777.4
42.5°	12347.5	12483.5	13332.5	15137.7	18506.2	22277.5	25168.5	28360.4	29735.2	29679.0	26590.5
45°	11422.6	11495.9	12270.3	14088.6	17873.0	22378.3	26102.5	30974.0	32307.0	32244.2	28775.0
47.5°	10469.0	10533.1	11341.5	12983.2	16774.2	22175.5	26841.6	33218.8	34927.2	34864.4	30945.2
50°	8250.4	8492.4	10149.8	12011.3	15522.3	21601.2	27538.9	36015.6	37669.1	37402.2	32846.0
52.5°	7058.7	7146.3	8005.8	11031.5	14273.1	20621.4	28004.6	38607.0	39924.3	39539.7	34789.9
55°	6598.2	6657.1	7078.3	9225.0	13099.7	19139.3	28552.7	41204.9	41615.7	41517.6	36375.3
57.5°	6249.0	6314.4	6615.2	7704.9	11863.5	17062.0	28381.3	43032.4	43546.5	43232.6	38058.9
60°	5754.5	5834.3	6233.3	6917.4	10458.5	14953.3	26873.0	43780.7	44950.1	44596.9	39339.5
62.5°	5443.1	5495.5	5724.4	6387.6	9294.3	13469.9	24726.4	43540.0	45655.2	45642.1	40450.2
65°	5020.6	5097.8	5342.4	5880.1	8258.3	12320.0	22701.4	42350.9	45351.7	45363.5	40679.1
67.5°	4578.5	4609.9	4866.3	5297.9	7037.8	11267.0	20081.2	40316.7	42987.9	43257.4	39094.9
70°	4026.4	4010.7	4288.1	4603.3	5751.9	9566.4	16163.3	36698.4	39495.2	39606.4	35891.3
72.5°	3168.3	3182.7	3259.9	3478.3	4366.6	7528.3	11728.7	31005.4	35844.2	36041.7	31796.8
75°	2129.6	2153.2	2512.9	2726.2	3140.8	5410.4	7375.3	20928.9	30301.6	30858.9	26024.0
77.5°	1624.7	1639.1	1743.7	1976.6	2272.2	3856.4	3997.7	11404.3	22060.4	23382.9	20358.5
80°	1151.2	1156.4	1053.0	936.6	1210.0	2616.3	2361.2	4857.1	8790.7	10387.9	11957.7
82.5°	515.4	507.6	597.8	497.1	697.2	1012.5	1114.5	2357.3	3651.0	3924.4	4272.4
85°	239.4	268.2	307.4	257.7	414.7	391.1	434.3	1004.6	1711.0	1888.9	1878.5
87.5°	58.9	64.1	81.1	103.3	150.4	133.4	130.8	295.6	382.0	380.7	584.7
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°	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5	10220.5
2.5°	10227.0	10159.0	9998.1	9842.4	9694.6	9596.5	9486.6	9371.5	9302.1	9269.4	9340.1
5°	10278.0	10148.5	9841.1	9532.4	9270.8	9047.1	8890.1	8756.7	8684.7	8691.2	8695.2
7.5°	10321.2	10139.4	9709.0	9273.4	8865.2	8587.9	8382.5	8238.6	8156.2	8093.4	8140.5
10°	10359.1	10101.4	9554.6	8973.8	8530.3	8119.6	7841.0	7667.0	7515.2	7430.2	7496.9
12.5°	10399.7	10087.0	9381.9	8705.6	8131.4	7672.2	7290.2	7117.6	6968.4	6904.3	6944.9
15°	10576.3	10142.0	9221.0	8390.4	7737.6	7143.7	6731.7	6519.7	6402.0	6324.8	6341.8
17.5°	10879.8	10287.2	9117.7	8060.7	7298.1	6670.2	6136.5	5889.2	5694.3	5639.4	5625.0
20°	11311.4	10563.2	9117.7	7782.1	6799.7	6144.3	5529.5	5112.2	4808.7	4694.9	4782.5
22.5°	12036.2	11032.8	9208.0	7529.6	6370.6	5598.8	4866.3	4229.2	3819.8	3653.6	3750.4
25°	13050.0	11758.8	9354.5	7308.6	5979.5	4970.9	4025.1	3292.6	2841.3	2643.7	2641.1
27.5°	14373.8	12869.4	9650.1	7128.0	5511.2	4158.6	3147.4	2442.3	2018.5	1899.4	1916.4
30°	15841.5	14072.9	10208.7	6866.4	4942.1	3249.4	2291.9	1794.8	1496.5	1339.5	1342.1
32.5°	17256.9	15319.6	10871.9	6696.3	4203.0	2450.1	1633.9	1280.7	1094.9	1002.0	1016.4
35°	18774.4	16394.9	11365.1	6411.2	3335.7	1771.2	1155.1	960.2	883.0	834.6	837.2
37.5°	20413.4	17577.4	11770.6	6029.2	2522.1	1216.6	852.9	822.8	790.1	728.6	723.4
40°	22125.8	18947.0	12012.6	5411.8	1752.9	842.4	724.7	758.7	740.4	660.6	654.1
42.5°	23577.8	20004.0	12072.8	4594.2	1134.2	682.8	656.7	709.0	712.9	631.8	621.4
45°	24972.3	20945.9	11955.0	3517.6	786.2	642.3	614.8	686.8	692.0	618.7	601.7
47.5°	26532.9	22234.4	11741.8	2346.8	650.1	607.0	600.4	650.1	668.5	608.3	587.4
50°	28428.4	23282.2	11110.0	1441.6	613.5	584.7	584.7	614.8	639.7	587.4	576.9
52.5°	30372.3	24195.3	10174.7	989.0	591.3	561.2	578.2	591.3	600.4	553.3	562.5
55°	31765.4	25005.0	8780.2	795.3	578.2	545.5	586.0	559.9	546.8	506.2	497.1
57.5°	33311.7	25967.8	7354.3	705.1	561.2	554.6	559.9	510.2	473.5	431.7	422.5
60°	34390.9	26485.8	5609.3	663.2	541.6	545.5	516.7	450.0	383.3	353.2	346.7
62.5°	35332.7	26781.4	4111.5	609.6	523.3	521.9	468.3	384.6	315.3	282.6	277.3
65°	35190.1	26319.7	2664.7	566.4	508.9	491.9	419.9	329.7	262.9	238.1	235.5
67.5°	33621.7	24276.4	1678.3	521.9	484.0	453.9	376.7	294.3	242.0	213.2	210.6
70°	30329.1	21454.7	1026.9	464.4	430.4	401.6	333.6	276.0	228.9	194.9	188.4
72.5°	25778.1	18375.4	726.0	409.4	375.4	341.4	282.6	262.9	218.5	175.3	170.1
75°	21178.7	13535.3	608.3	357.1	320.5	274.7	240.7	244.6	205.4	159.6	155.7
77.5°	14914.0	8438.8	566.4	291.7	252.5	218.5	208.0	223.7	188.4	146.5	142.6
80°	8704.3	4739.4	468.3	230.2	189.7	168.7	174.0	189.7	164.8	132.1	126.9
82.5°	3513.7	1875.9	329.7	179.2	138.7	134.7	142.6	154.4	136.0	111.2	108.6
85°	1254.5	586.0	187.1	117.7	89.0	92.9	91.6	109.9	98.1	81.1	79.8
87.5°	329.7	116.4	83.7	47.1	37.9	37.9	35.3	51.0	47.1	36.6	40.6
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)