

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: P721938

Luminaire Tested: **CST-CA8-430-760-U-T2-HSS**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721938
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-CA8-430-760-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59158 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

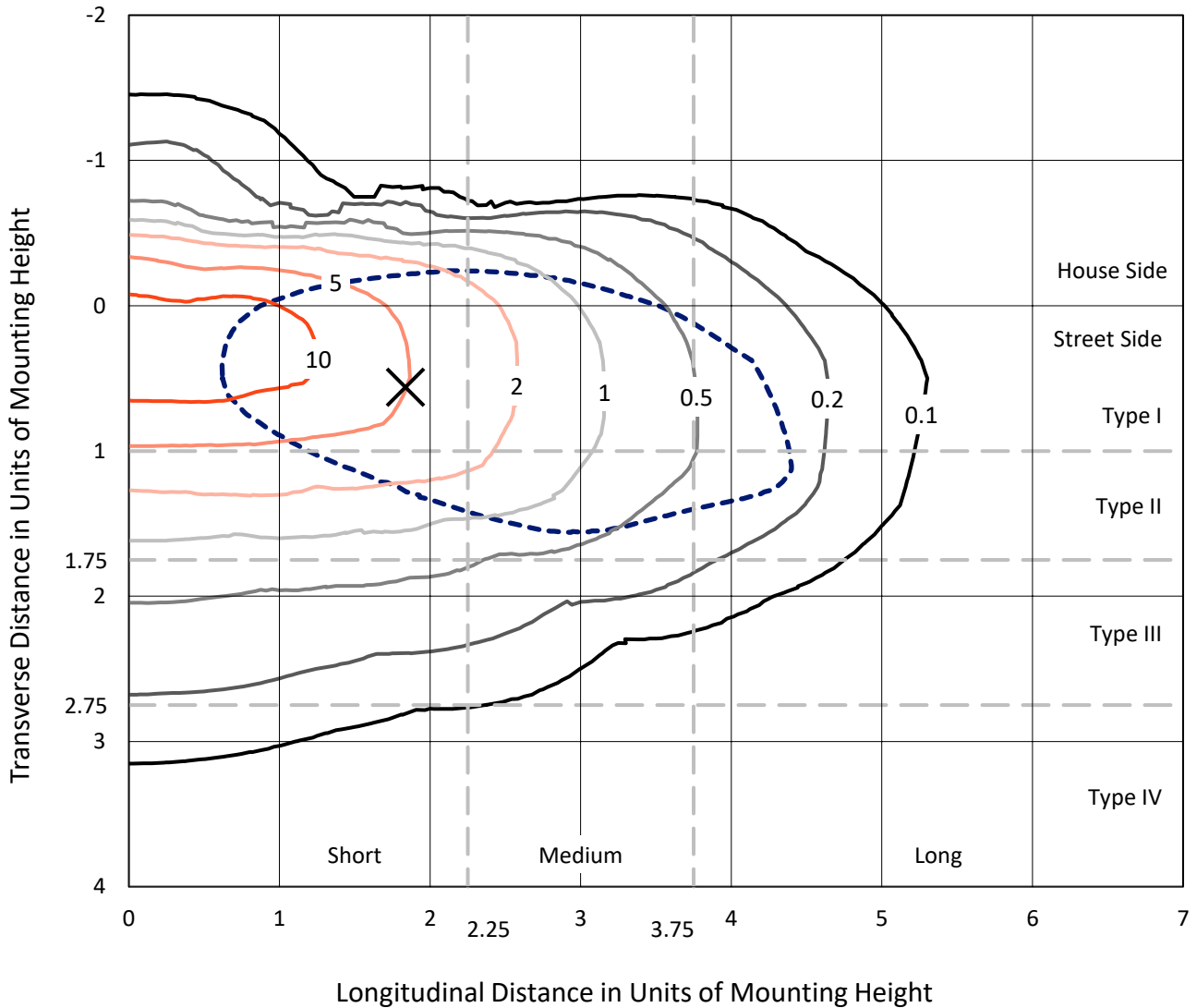
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P721938
 CATALOG NUMBER: CST-CA8-430-760-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

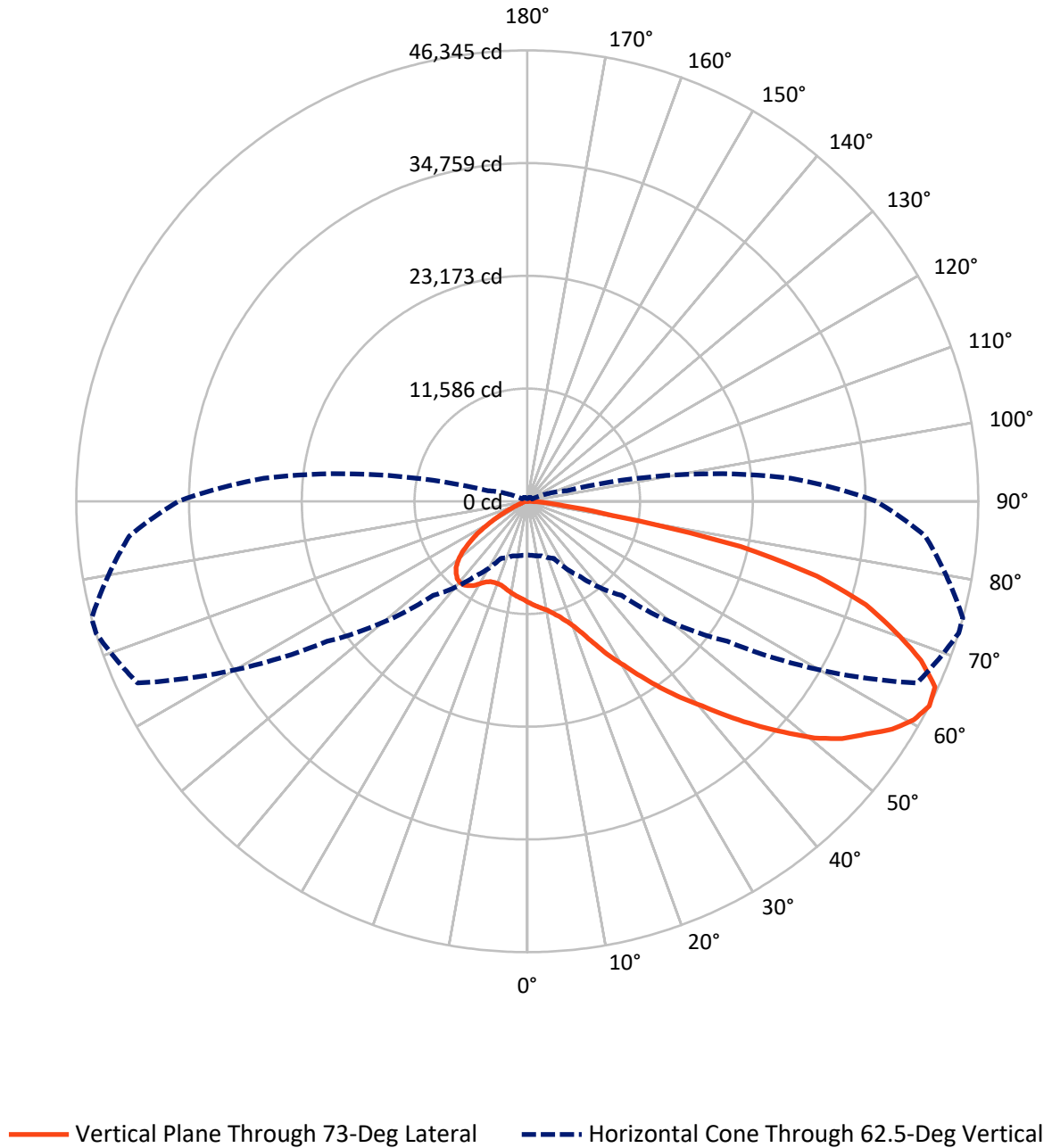
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

REPORT NUMBER: P721938
CATALOG NUMBER: CST-CA8-430-760-U-T2-HSS

Luminous Intensity Polar Plot



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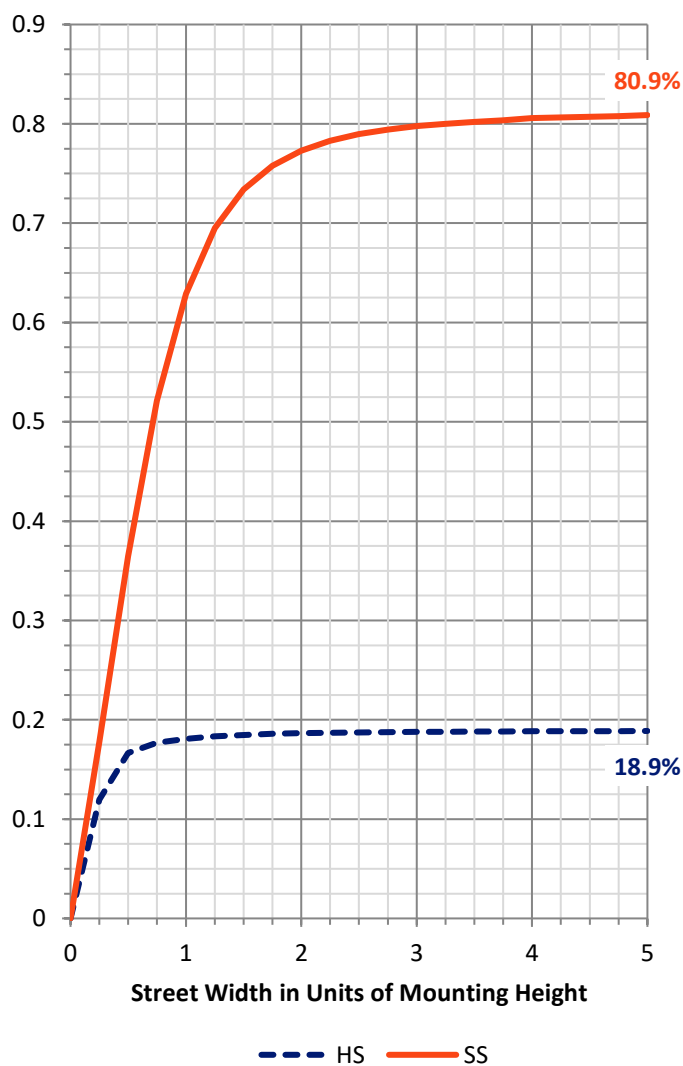
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11316.7	0.0	11316.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	47841.4	0.0	47841.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	59158.0	0.0	59158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.9	1.7
10°-20°	2980.5	5.0
20°-30°	5149.7	8.7
30°-40°	7744.0	13.1
40°-50°	10325.8	17.5
50°-60°	12160.7	20.6
60°-70°	12089.9	20.4
70°-80°	6941.1	11.7
80°-90°	775.4	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°	59158.0	100.0
0°-180°	59158.0	100.0

Coefficient of Utilization



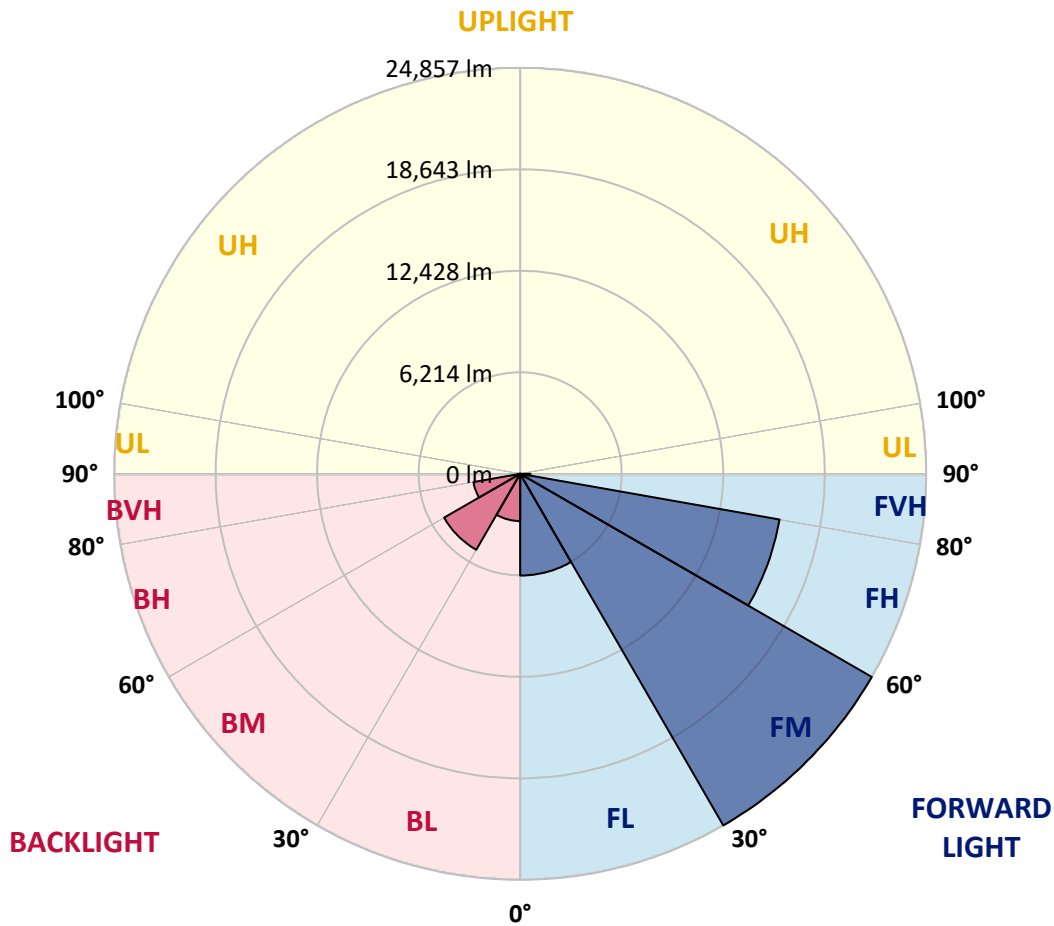
REPORT NUMBER: P721938
 CATALOG NUMBER: CST-CA8-430-760-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6229.3	10.5			
FM (30°-60°)	24856.8	42.0			
FH (60°-80°)	16125.6	27.3			G5
FVH (80°-90°)	629.8	1.1			G4/750
BL (0°-30°)	2891.9	4.9	B4/5000		
BM (30°-60°)	5373.7	9.1	B4/8500		
BH (60°-80°)	2905.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	145.6	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





REPORT NUMBER: P721938

CATALOG NUMBER: CST-CA8-430-760-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0
2.5°	11100.0	11127.9	11094.7	11080.1	11064.2	10960.6	10839.7	10716.2	10616.6	10600.7	10470.6
5°	11879.5	11894.1	11839.7	11777.2	11669.7	11498.4	11281.9	11068.1	10868.9	10815.8	10578.1
7.5°	12478.4	12450.5	12437.2	12384.1	12289.8	12101.3	11773.3	11422.7	11114.6	11040.2	10679.1
10°	13040.1	13028.1	12927.2	12860.8	12710.8	12536.8	12267.2	11822.4	11388.2	11268.7	10766.7
12.5°	13648.3	13621.7	13580.5	13437.1	13315.0	13021.5	12696.2	12291.1	11807.8	11648.4	10916.8
15°	14195.4	14123.7	14101.1	13951.0	13827.5	13603.1	13276.5	12806.4	12289.8	12153.0	11202.3
17.5°	14715.9	14682.7	14632.2	14530.0	14391.9	14219.3	13957.7	13454.4	12920.6	12721.4	11686.9
20°	15158.1	15116.9	15073.1	15101.0	15070.5	14960.2	14795.6	14366.7	13714.7	13522.1	12276.5
22.5°	15466.2	15464.8	15640.1	15742.4	15800.8	15796.8	15757.0	15514.0	14858.0	14662.8	13158.3
25°	15722.5	15742.4	15964.1	16353.2	16701.1	16733.0	17014.5	16899.0	16341.3	16138.1	14484.8
27.5°	15798.2	15838.0	16240.3	16852.5	17381.0	17888.3	18301.3	18512.4	17995.8	17752.8	15911.0
30°	15852.6	15868.5	16262.9	16995.9	18110.0	18913.4	19651.8	20009.0	19564.1	19386.2	17500.5
32.5°	15468.8	15474.1	16078.3	17188.5	18645.2	20038.2	20911.9	21585.2	21468.3	21233.3	19238.8
35°	14940.3	15038.6	15731.8	17002.6	19086.1	21071.3	22261.1	23265.0	23498.7	23330.1	20975.7
37.5°	14287.0	14364.0	15106.3	16726.4	19183.0	21781.7	23310.1	24972.7	25583.5	25555.6	23072.4
40°	13483.6	13577.9	14466.3	16131.5	19135.2	22298.3	24541.1	26863.6	27639.1	27551.5	25152.0
42.5°	12534.1	12672.3	13534.1	15366.6	18786.0	22614.3	25549.0	28789.1	30184.7	30127.6	26992.4
45°	11595.3	11669.7	12455.8	14301.6	18143.2	22716.6	26497.1	31442.3	32795.4	32731.7	29210.1
47.5°	10627.3	10692.3	11513.0	13179.5	17027.8	22510.7	27247.4	33721.0	35455.2	35391.5	31413.1
50°	8375.1	8620.8	10303.3	12192.9	15757.0	21927.8	27955.2	36560.0	38238.5	37967.6	33342.5
52.5°	7165.4	7254.4	8126.8	11198.3	14488.8	20933.2	28427.9	39190.6	40527.8	40137.4	35315.8
55°	6698.0	6757.7	7185.3	9364.4	13297.7	19428.7	28984.3	41827.9	42244.8	42145.2	36925.2
57.5°	6343.4	6409.8	6715.2	7821.4	12042.8	17319.9	28810.4	43682.9	44204.8	43886.1	38634.2
60°	5841.5	5922.5	6327.5	7022.0	10616.6	15179.3	27279.3	44442.5	45629.7	45271.1	39934.3
62.5°	5525.4	5578.6	5810.9	6484.2	9434.8	13673.5	25100.2	44198.2	46345.4	46332.1	41061.7
65°	5096.5	5174.9	5423.2	5969.0	8383.1	12506.3	23044.6	42991.1	46037.3	46049.3	41294.0
67.5°	4647.7	4679.6	4939.8	5378.0	7144.2	11437.3	20384.8	40926.2	43637.8	43911.4	39685.9
70°	4087.3	4071.4	4352.9	4672.9	5838.8	9711.0	16407.7	37253.2	40092.3	40205.2	36433.9
72.5°	3216.2	3230.8	3309.2	3530.9	4432.6	7642.1	11906.0	31474.1	36386.1	36586.6	32277.5
75°	2161.8	2185.7	2550.9	2767.4	3188.3	5492.2	7486.8	21245.2	30759.7	31325.4	26417.5
77.5°	1649.3	1663.9	1770.1	2006.5	2306.6	3914.7	4058.1	11576.7	22393.9	23736.4	20666.3
80°	1168.6	1173.9	1069.0	950.8	1228.3	2655.8	2396.9	4930.5	8923.6	10544.9	12138.4
82.5°	523.2	515.2	606.9	504.6	707.8	1027.8	1131.4	2392.9	3706.2	3983.7	4337.0
85°	243.0	272.2	312.1	261.6	420.9	397.0	440.9	1019.8	1736.9	1917.5	1906.9
87.5°	59.8	65.1	82.3	104.9	152.7	135.4	132.8	300.1	387.7	386.4	593.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P721938

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0	10375.0
2.5°	10381.6	10312.6	10149.2	9991.2	9841.1	9741.6	9630.0	9513.2	9442.8	9409.6	9481.3
5°	10433.4	10301.9	9989.9	9676.5	9410.9	9183.8	9024.5	8889.0	8816.0	8822.6	8826.6
7.5°	10477.2	10292.6	9855.8	9413.6	8999.3	8717.7	8509.3	8363.2	8279.5	8215.8	8263.6
10°	10515.7	10254.1	9699.1	9109.5	8659.3	8242.3	7959.5	7782.9	7628.8	7542.5	7610.3
12.5°	10556.9	10239.5	9523.8	8837.2	8254.3	7788.2	7400.4	7225.2	7073.8	7008.7	7049.9
15°	10736.2	10295.3	9360.4	8517.2	7854.6	7251.7	6833.4	6618.3	6498.8	6420.4	6437.7
17.5°	11044.2	10442.7	9255.5	8182.6	7408.4	6771.0	6229.2	5978.3	5780.4	5724.6	5710.0
20°	11482.4	10722.9	9255.5	7899.7	6902.5	6237.2	5613.1	5189.5	4881.4	4765.9	4854.8
22.5°	12218.1	11199.6	9347.2	7643.5	6466.9	5683.5	4939.8	4293.1	3877.5	3708.9	3807.1
25°	13247.2	11936.6	9495.9	7419.0	6069.9	5046.1	4086.0	3342.4	2884.2	2683.7	2681.1
27.5°	14591.1	13064.0	9796.0	7235.8	5594.5	4221.4	3195.0	2479.2	2049.0	1928.1	1945.4
30°	16081.0	14285.7	10363.0	6970.2	5016.8	3298.5	2326.5	1821.9	1519.1	1359.8	1362.4
32.5°	17517.8	15551.2	11036.3	6797.6	4266.6	2487.2	1658.6	1300.0	1111.5	1017.2	1031.8
35°	19058.2	16642.7	11536.9	6508.1	3386.2	1798.0	1172.5	974.7	896.3	847.2	849.9
37.5°	20722.0	17843.1	11948.5	6120.3	2560.2	1235.0	865.8	835.3	802.1	739.6	734.3
40°	22460.3	19233.5	12194.2	5493.6	1779.4	855.2	735.7	770.2	751.6	670.6	664.0
42.5°	23934.3	20306.4	12255.3	4663.6	1151.3	693.2	666.6	719.7	723.7	641.4	630.8
45°	25349.8	21262.5	12135.8	3570.8	798.1	652.0	624.1	697.2	702.5	628.1	610.8
47.5°	26934.0	22570.5	11919.3	2382.3	660.0	616.2	609.5	660.0	678.6	617.5	596.2
50°	28858.2	23634.2	11277.9	1463.4	622.8	593.6	593.6	624.1	649.3	596.2	585.6
52.5°	30831.4	24561.0	10328.5	1003.9	600.2	569.7	586.9	600.2	609.5	561.7	571.0
55°	32245.7	25383.0	8912.9	807.4	586.9	553.7	594.9	568.3	555.1	513.9	504.6
57.5°	33815.2	26360.4	7465.5	715.7	569.7	563.0	568.3	517.9	480.7	438.2	428.9
60°	34910.8	26886.2	5694.1	673.3	549.8	553.7	524.5	456.8	389.1	358.5	351.9
62.5°	35866.9	27186.3	4173.6	618.8	531.2	529.8	475.4	390.4	320.0	286.8	281.5
65°	35722.1	26717.6	2705.0	575.0	516.6	499.3	426.3	334.6	266.9	241.7	239.0
67.5°	34130.0	24643.4	1703.7	529.8	491.3	460.8	382.4	298.8	245.7	216.4	213.8
70°	30787.6	21779.1	1042.4	471.4	436.9	407.7	338.6	280.2	232.4	197.9	191.2
72.5°	26167.8	18653.2	737.0	415.6	381.1	346.6	286.8	266.9	221.8	177.9	172.6
75°	21498.9	13739.9	617.5	362.5	325.3	278.9	244.3	248.3	208.5	162.0	158.0
77.5°	15139.5	8566.4	575.0	296.1	256.3	221.8	211.1	227.1	191.2	148.7	144.7
80°	8835.9	4811.0	475.4	233.7	192.5	171.3	176.6	192.5	167.3	134.1	128.8
82.5°	3566.8	1904.2	334.6	181.9	140.8	136.8	144.7	156.7	138.1	112.9	110.2
85°	1273.5	594.9	189.9	119.5	90.3	94.3	93.0	111.5	99.6	82.3	81.0
87.5°	334.6	118.2	85.0	47.8	38.5	38.5	35.9	51.8	47.8	37.2	41.2
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)