

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: P721911

Luminaire Tested: **CST-CA8-430-730-U-T3**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
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-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64161 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

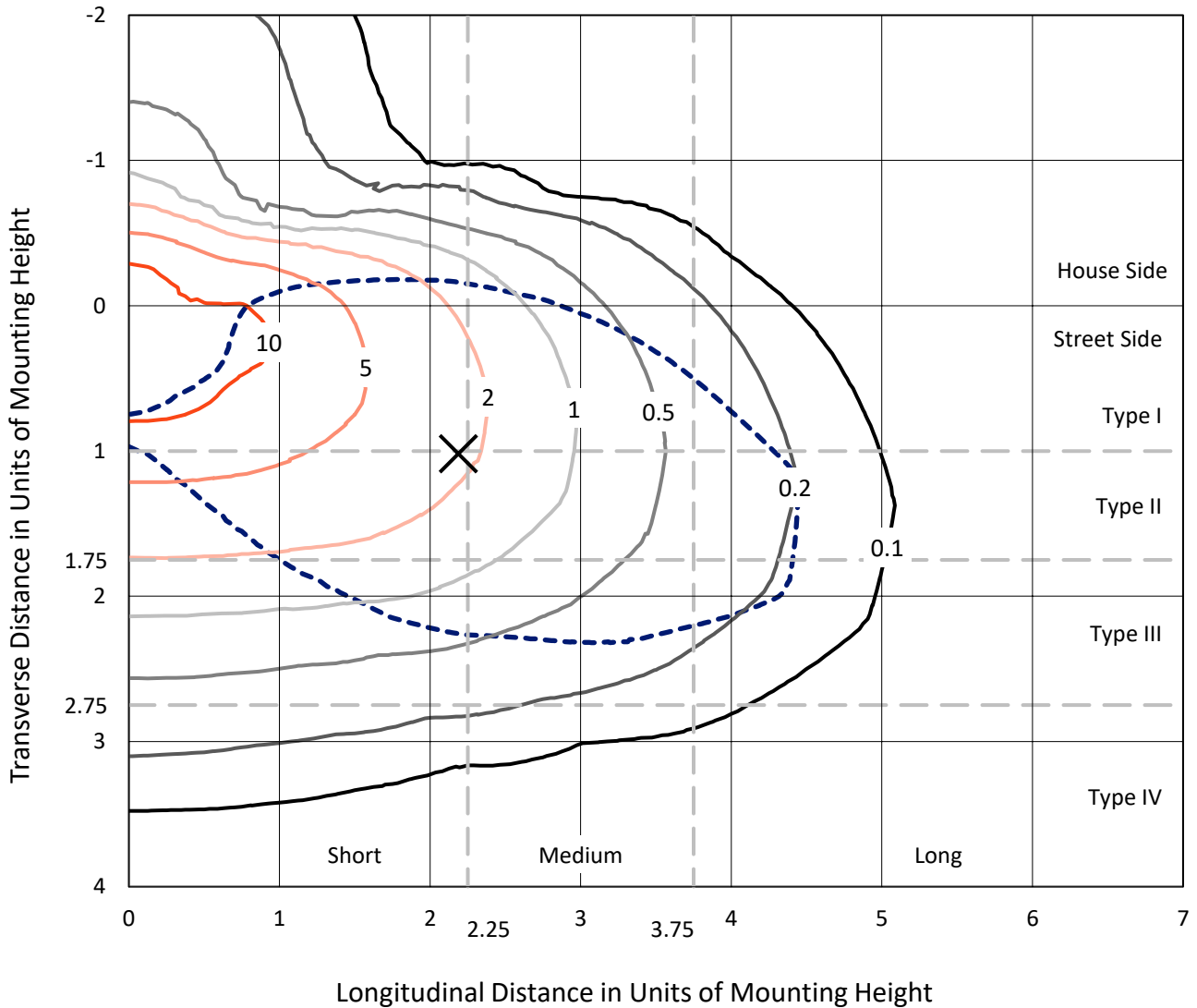
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

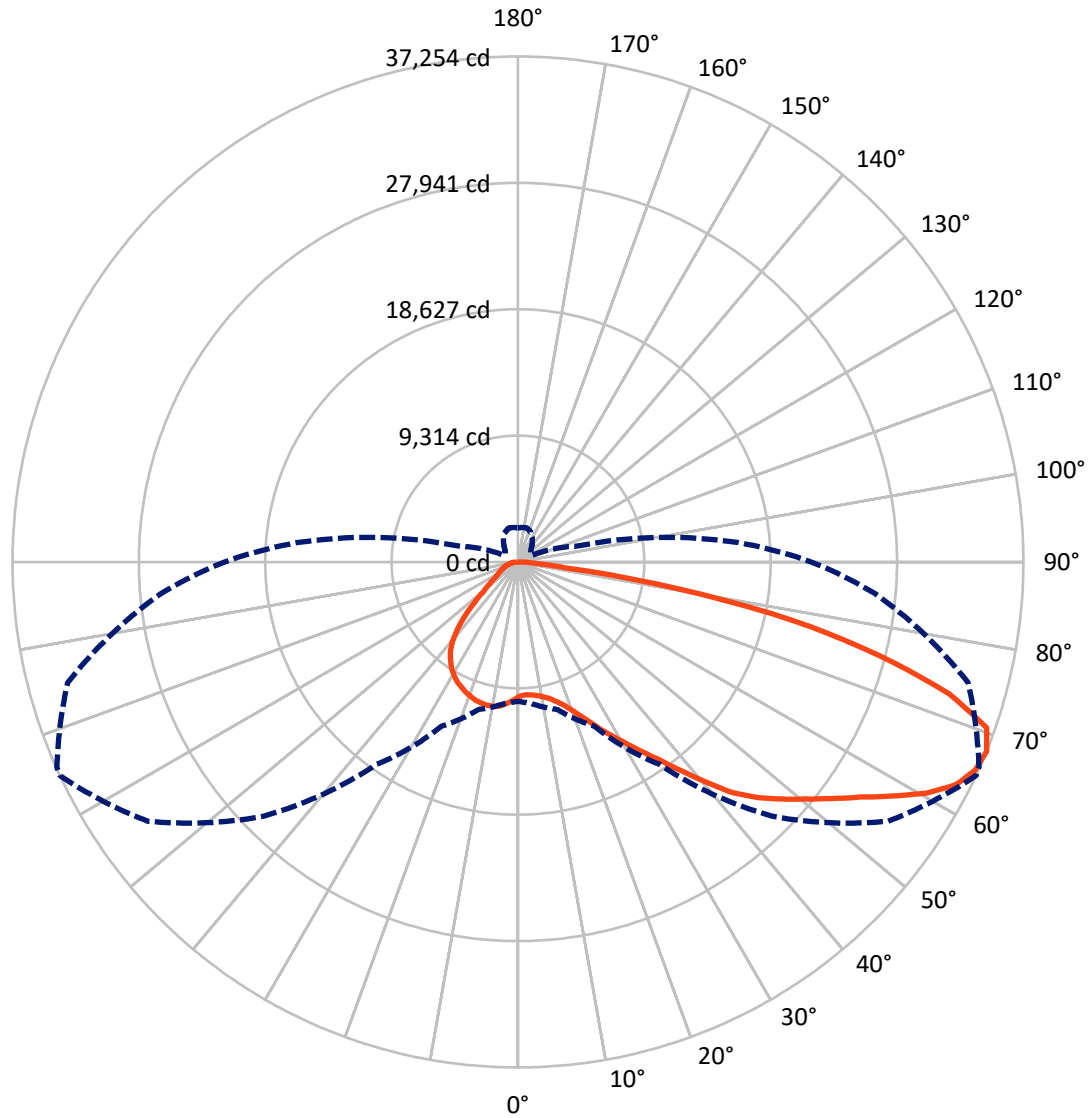
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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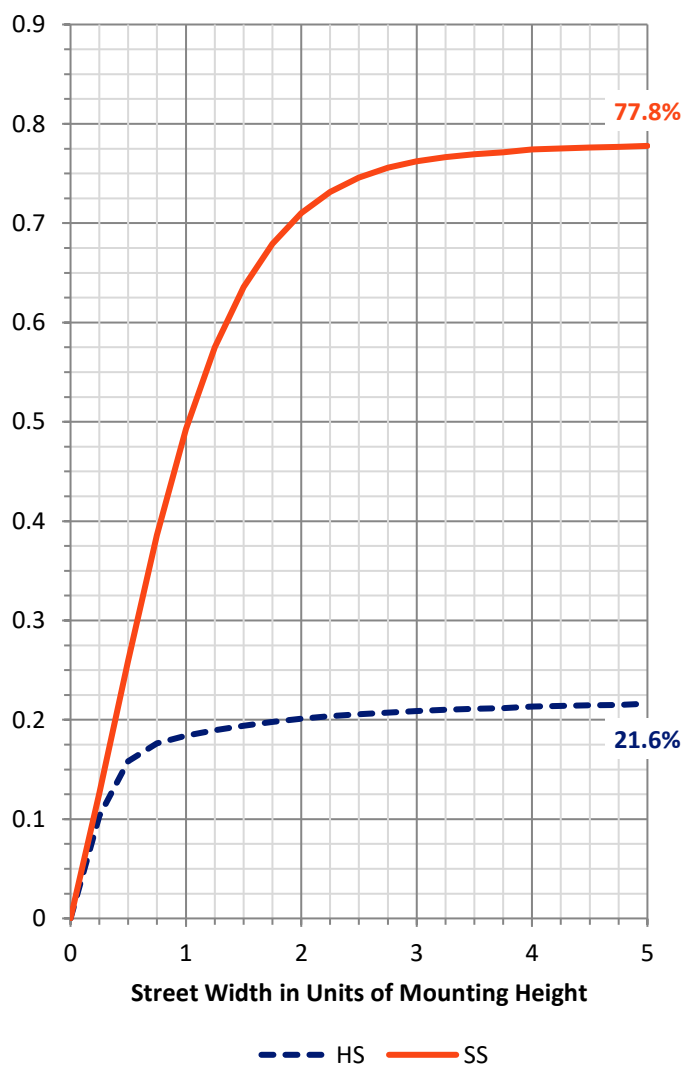
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14172.4	0.0	14172.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	49988.6	0.0	49988.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	64161.0	0.0	64161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.4	1.5
10°-20°	3085.0	4.8
20°-30°	5340.6	8.3
30°-40°	7847.5	12.2
40°-50°	10606.9	16.5
50°-60°	13043.3	20.3
60°-70°	13976.7	21.8
70°-80°	8243.3	12.8
80°-90°	1030.4	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°	64161.0	100.0
0°-180°	64161.0	100.0

Coefficient of Utilization

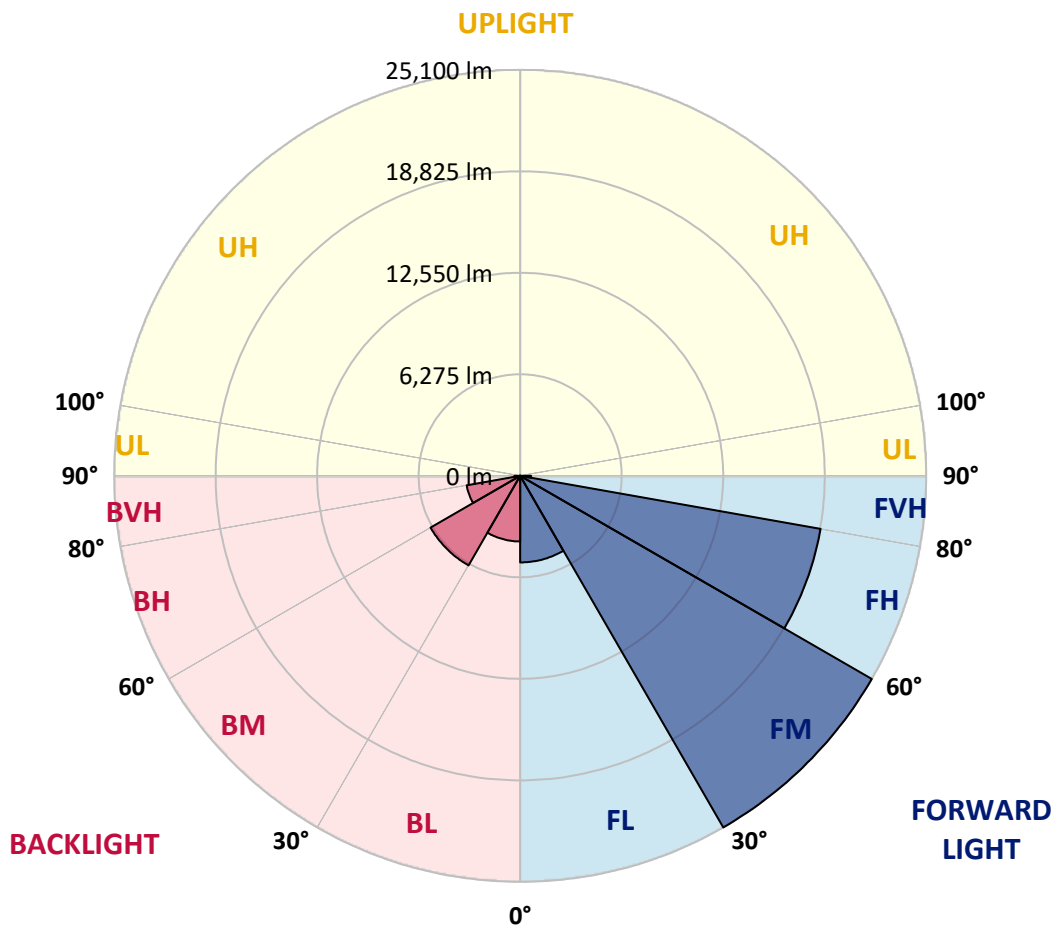


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5353.7	8.3			
FM (30°-60°)	25100.2	39.1			
FH (60°-80°)	18859.0	29.4			G5
FVH (80°-90°)	675.7	1.1			G4/750
BL (0°-30°)	4059.3	6.3	B4/5000		
BM (30°-60°)	6397.4	10.0	B4/8500		
BH (60°-80°)	3360.9	5.2	B4/5000		G4/5000
BVH (80°-90°)	354.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4
2.5°	9723.4	9705.1	9697.2	9722.1	9740.4	9761.3	9791.4	9820.2	9824.1	9862.0	9911.8
5°	9841.1	9825.4	9808.4	9804.5	9797.9	9796.6	9804.5	9837.2	9845.0	9881.7	9988.9
7.5°	10102.7	10087.0	10055.6	10043.9	10008.6	9945.8	9915.7	9932.7	9936.6	9981.1	10114.5
10°	10529.2	10480.8	10442.9	10403.6	10292.4	10193.0	10119.7	10088.3	10081.8	10125.0	10279.3
12.5°	11038.1	10997.5	10955.6	10852.3	10711.0	10531.8	10402.3	10330.4	10325.1	10361.7	10478.2
15°	11575.7	11575.7	11546.9	11424.0	11285.3	10988.3	10788.2	10667.9	10675.7	10704.5	10758.1
17.5°	12270.3	12212.8	12199.7	12059.7	11905.4	11634.6	11316.7	11124.4	11133.5	11146.6	11106.1
20°	12976.7	12959.7	12940.1	12847.2	12707.2	12359.3	12002.2	11749.7	11751.0	11703.9	11523.4
22.5°	13910.7	13854.5	13868.9	13764.2	13574.5	13217.4	12806.7	12507.1	12526.7	12458.7	12131.7
25°	14838.2	14781.9	14751.9	14681.2	14517.7	14178.9	13691.0	13416.2	13392.7	13269.7	12794.9
27.5°	15764.4	15731.6	15756.5	15671.5	15538.0	15160.0	14712.6	14407.8	14423.5	14338.5	13630.8
30°	16723.2	16686.6	16795.2	16657.8	16575.4	16207.8	15778.7	15420.3	15433.4	15464.8	14670.8
32.5°	17446.6	17489.8	17679.5	17663.8	17648.1	17238.6	16787.3	16588.5	16608.1	16718.0	15905.6
35°	18145.2	18149.1	18415.9	18617.4	18702.4	18359.7	17891.4	17884.8	18013.0	18347.9	17627.1
37.5°	18724.7	18711.6	19067.4	19380.0	19612.9	19347.3	19089.6	19491.2	19607.7	20302.3	19360.4
40°	19041.2	19068.7	19526.6	19916.4	20374.2	20248.6	20276.1	21303.0	21589.5	22197.8	20656.8
42.5°	18818.9	18902.6	19615.5	20410.9	21101.6	21269.0	21821.0	23260.0	23381.6	23491.5	21932.2
45°	18446.0	18533.7	19323.8	20608.4	21702.0	22409.7	23358.1	24765.6	24899.1	24776.1	22993.1
47.5°	18057.5	18147.8	19028.2	20528.6	22199.1	23555.6	24725.1	26097.3	26267.4	25886.7	24013.5
50°	17564.3	17704.3	18667.1	20359.8	22602.0	24791.8	26018.8	27468.3	27546.7	26997.3	24786.6
52.5°	16957.4	17111.7	18153.0	20070.7	22917.2	25655.2	27328.3	28955.6	28947.8	28295.0	25670.9
55°	16319.0	16459.0	17531.6	19615.5	23093.8	26319.7	28374.8	30594.7	30688.9	30142.1	26471.5
57.5°	15501.4	15628.3	16797.8	19003.3	22910.7	26883.5	30070.1	32542.5	32589.6	31428.0	27108.5
60°	14418.3	14605.3	15780.1	18225.0	22384.8	27536.3	31938.2	34591.1	34648.6	32692.9	27518.0
62.5°	13229.2	13303.7	14500.7	17026.7	21619.6	28039.9	33233.2	36193.5	36109.8	33681.9	27640.9
65°	11779.8	11838.6	12874.7	15485.7	20197.6	27763.9	33697.6	37017.6	36914.3	34303.3	27262.9
67.5°	10262.3	10444.2	11257.8	13348.2	18213.2	26489.8	33305.2	37254.4	37202.1	34350.4	26360.3
70°	8292.3	8356.4	9091.5	10874.5	15196.6	23938.9	31997.0	36647.4	36606.9	33298.6	24517.1
72.5°	5847.4	5784.6	6141.7	7540.1	10976.6	19042.5	27319.1	33237.1	33305.2	29787.6	21350.1
75°	3104.2	3224.6	3780.5	4616.4	6222.8	12241.5	21780.5	27507.5	27483.9	24908.2	16876.3
77.5°	1653.5	1650.9	2032.8	2390.0	3046.6	5625.0	14366.0	20744.4	20859.5	19298.9	11587.5
80°	794.0	824.1	847.7	971.9	1518.7	2599.3	6009.6	12029.6	12814.5	11510.3	5504.6
82.5°	635.8	638.4	641.0	613.5	627.9	1058.3	2315.4	3481.0	3606.5	2898.8	1775.1
85°	470.9	442.2	438.2	371.5	419.9	635.8	1168.2	1486.0	1412.8	1374.9	1002.0
87.5°	189.7	177.9	172.7	162.2	162.2	239.4	412.1	537.6	536.3	489.2	336.2
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°	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4	9910.4
2.5°	9951.0	9998.1	10108.0	10202.2	10237.5	10323.8	10404.9	10452.0	10484.7	10504.3	10593.3
5°	10054.3	10148.5	10323.8	10455.9	10584.1	10743.7	10847.1	10912.5	10949.1	10970.0	11034.1
7.5°	10212.6	10308.1	10493.9	10696.6	10814.4	10945.2	11011.9	11059.0	11082.5	11076.0	11127.0
10°	10353.9	10448.1	10633.8	10789.5	10856.2	10930.8	10966.1	10976.6	10977.9	10983.1	11034.1
12.5°	10546.2	10603.8	10703.2	10805.2	10790.8	10793.4	10823.5	10810.4	10780.4	10775.1	10809.1
15°	10752.9	10754.2	10762.0	10739.8	10649.5	10610.3	10568.4	10533.1	10450.7	10445.5	10499.1
17.5°	11011.9	10950.4	10807.8	10656.1	10441.5	10293.7	10144.6	10083.1	9982.4	9962.8	9988.9
20°	11345.5	11217.3	10870.6	10493.9	10092.3	9828.0	9647.5	9465.7	9325.7	9291.7	9316.5
22.5°	11824.2	11571.8	10950.4	10321.2	9699.8	9248.5	8897.9	8679.5	8444.0	8323.7	8335.4
25°	12402.4	12007.4	11089.1	10102.7	9238.1	8586.6	8017.6	7579.3	7313.8	7137.2	7184.3
27.5°	13159.9	12617.0	11255.2	9886.9	8663.8	7740.2	6914.8	6320.9	6050.1	5966.4	5911.5
30°	14037.6	13353.5	11430.5	9567.7	8043.7	6692.4	5635.5	5141.0	4830.9	4781.2	4739.4
32.5°	15212.3	14280.9	11758.8	9221.1	7303.3	5644.6	4497.4	3928.3	3857.7	3817.1	3808.0
35°	16727.1	15496.2	12102.9	8771.1	6337.9	4416.3	3402.5	3095.1	3061.0	3105.5	3109.4
37.5°	18334.8	16814.8	12514.9	8263.5	5227.3	3295.2	2603.2	2390.0	2427.9	2566.6	2598.0
40°	19423.2	17683.4	12889.1	7574.1	3855.1	2393.9	1894.2	1848.4	2057.7	2235.6	2272.2
42.5°	20467.1	18341.4	13040.8	6662.3	2749.7	1704.5	1529.2	1686.2	1979.2	2174.1	2200.3
45°	21357.9	19106.6	12658.8	5568.7	1864.1	1424.6	1465.1	1682.3	2008.0	2223.8	2243.5
47.5°	22205.6	19731.9	12136.9	4387.5	1470.3	1370.9	1463.8	1717.6	2072.1	2276.2	2287.9
50°	23015.4	20208.1	11246.0	3338.4	1377.5	1346.1	1475.6	1772.5	2107.4	2235.6	2230.4
52.5°	23615.8	20454.0	10297.7	2694.8	1340.8	1326.5	1507.0	1841.9	2113.9	2191.1	2185.9
55°	24056.6	20406.9	9675.0	2206.8	1310.8	1318.6	1558.0	1894.2	2176.7	2293.2	2289.2
57.5°	24097.2	20193.7	8967.3	1864.1	1274.1	1317.3	1612.9	1967.4	2490.7	2705.2	2639.8
60°	24048.8	19840.5	8260.9	1636.5	1233.6	1325.1	1670.5	2187.2	2943.3	3112.1	3066.3
62.5°	23810.7	19182.5	7202.6	1486.0	1198.3	1353.9	1713.7	2361.2	2921.1	2940.7	2875.3
65°	23075.5	18302.1	5813.4	1334.3	1162.9	1373.5	1749.0	2407.0	2683.0	2620.2	2587.5
67.5°	21620.9	16336.0	4484.3	1195.6	1117.1	1369.6	1853.6	2341.6	2592.7	2546.9	2505.1
70°	19554.0	14101.7	3113.4	1053.0	1040.0	1344.8	1827.5	2363.8	2549.6	2478.9	2422.7
72.5°	16336.0	11062.9	1980.5	936.6	924.9	1285.9	1762.1	2349.4	2520.8	2489.4	2412.2
75°	12300.4	7721.9	1258.4	809.7	822.8	1178.6	1657.4	2272.2	2506.4	2408.3	2260.5
77.5°	7744.2	3811.9	978.5	688.1	707.7	1016.4	1432.4	1984.4	2405.7	2346.8	2157.1
80°	2928.9	1547.5	765.3	558.6	575.6	790.1	1174.7	1632.6	2214.7	2311.5	2230.4
82.5°	1348.7	968.0	574.3	448.7	455.2	575.6	876.5	1208.7	1874.6	2121.8	2324.6
85°	787.5	634.4	383.3	299.6	311.3	340.1	493.2	737.8	1215.3	1618.2	1810.5
87.5°	268.2	221.1	149.1	126.9	123.0	140.0	119.0	242.0	361.0	635.8	726.0
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)