

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: P479125

Luminaire Tested: **IFLD-L-SA8D-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479125
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

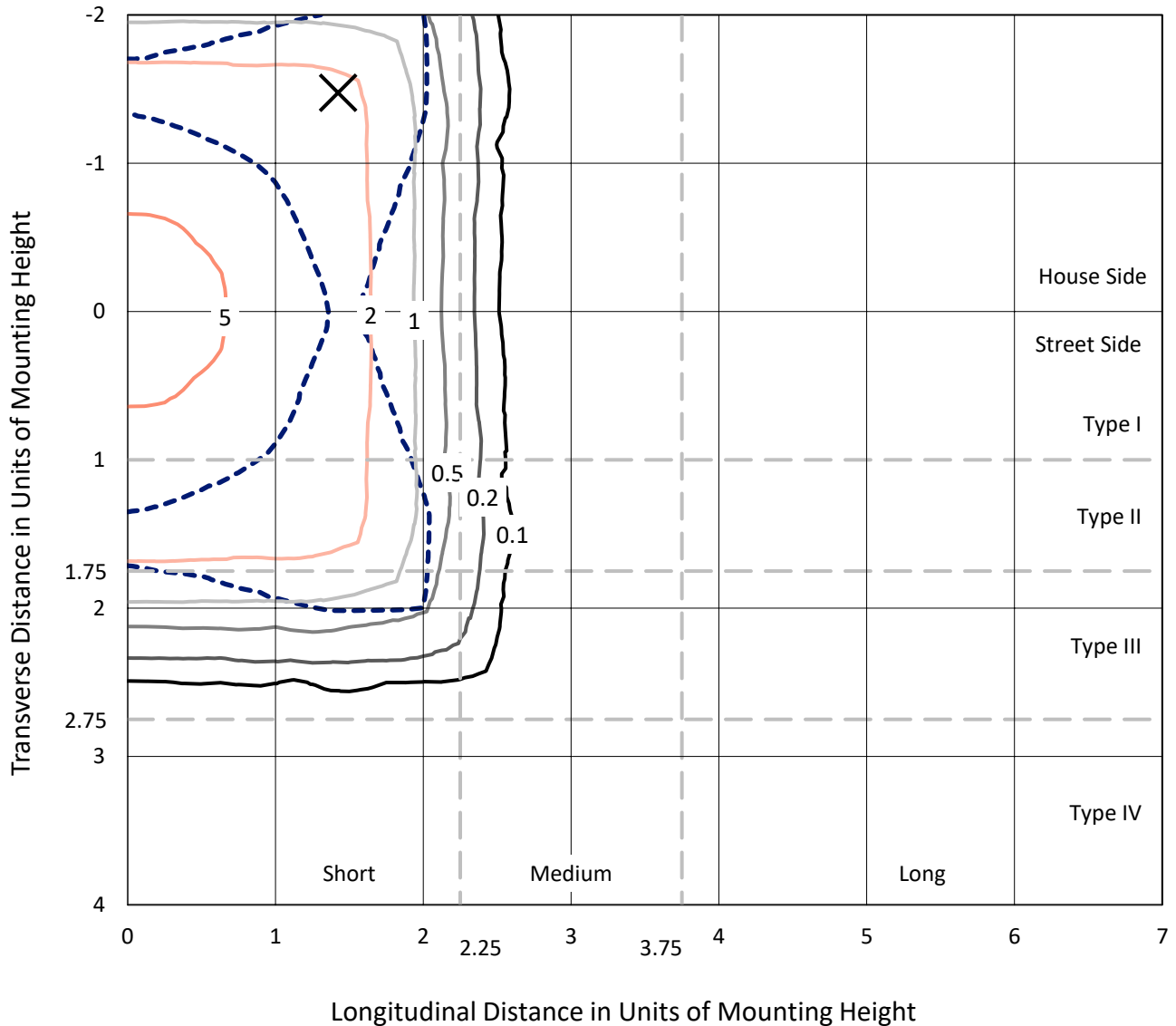
Lumens per Lamp: N/A
Luminaire Lumens: 44180.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 488.3
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

REPORT NUMBER: P479125
 CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

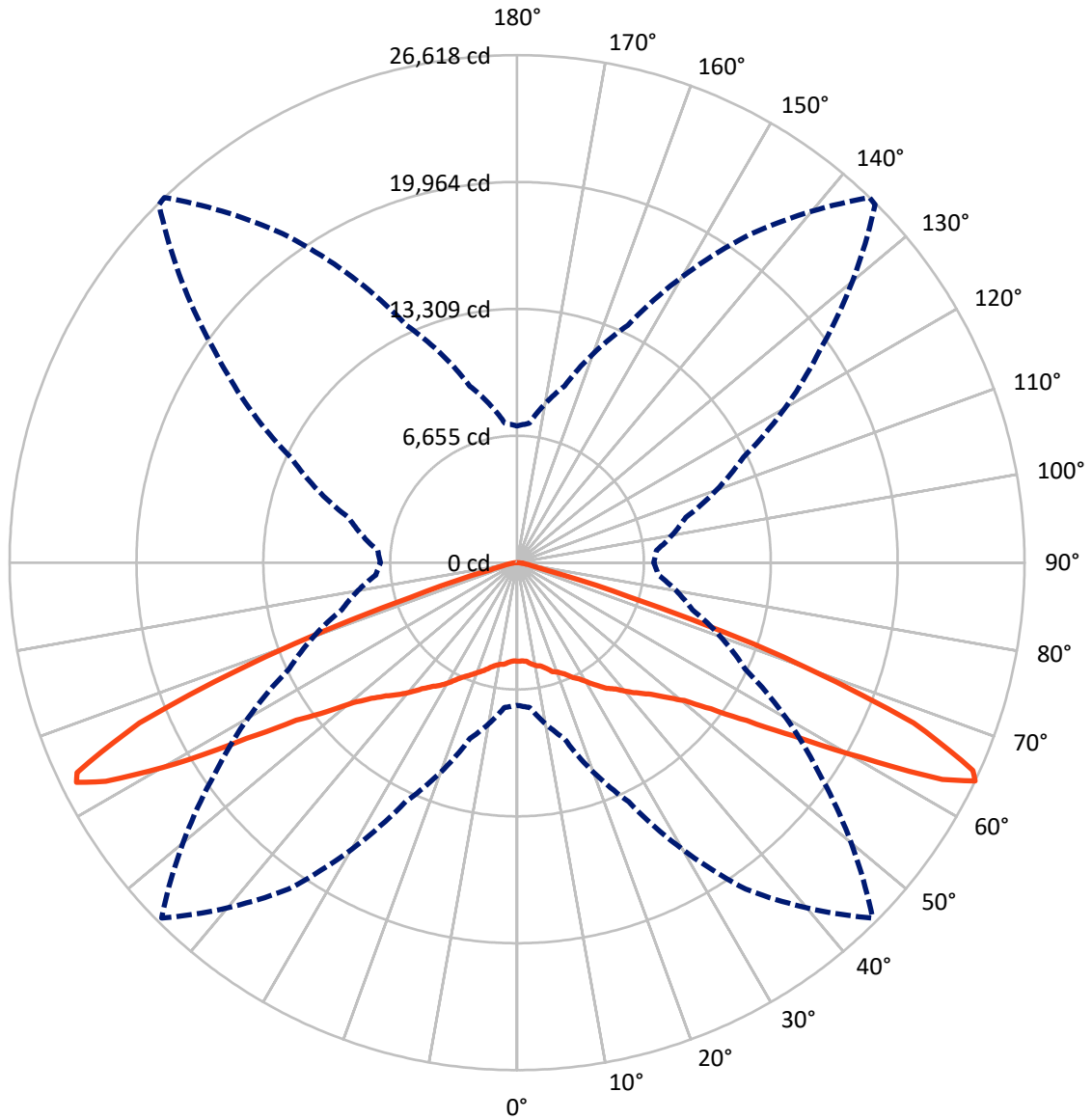
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P479125
CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479125
 CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

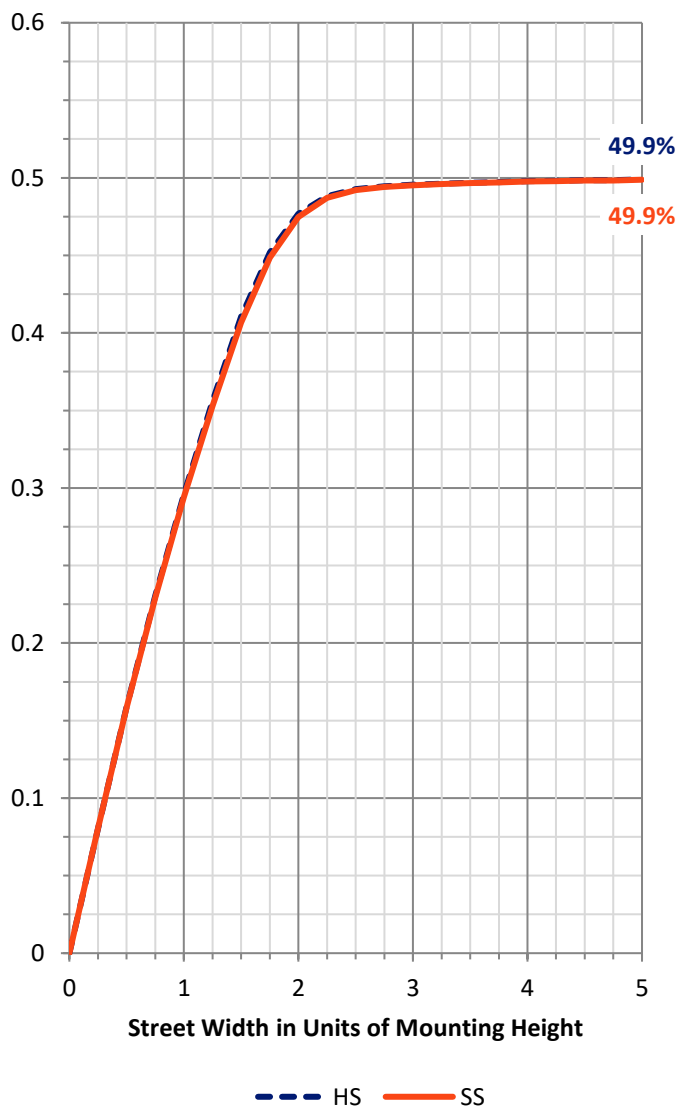
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22111.4	0.0	22111.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22069.3	0.0	22069.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	44180.7	0.0	44180.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	1.2
10°-20°	1638.1	3.7
20°-30°	3078.7	7.0
30°-40°	5077.2	11.5
40°-50°	7940.5	18.0
50°-60°	12829.8	29.0
60°-70°	11552.4	26.1
70°-80°	1368.4	3.1
80°-90°	187.3	0.4
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°	44180.7	100.0
0°-180°	44180.7	100.0

Coefficient of Utilization



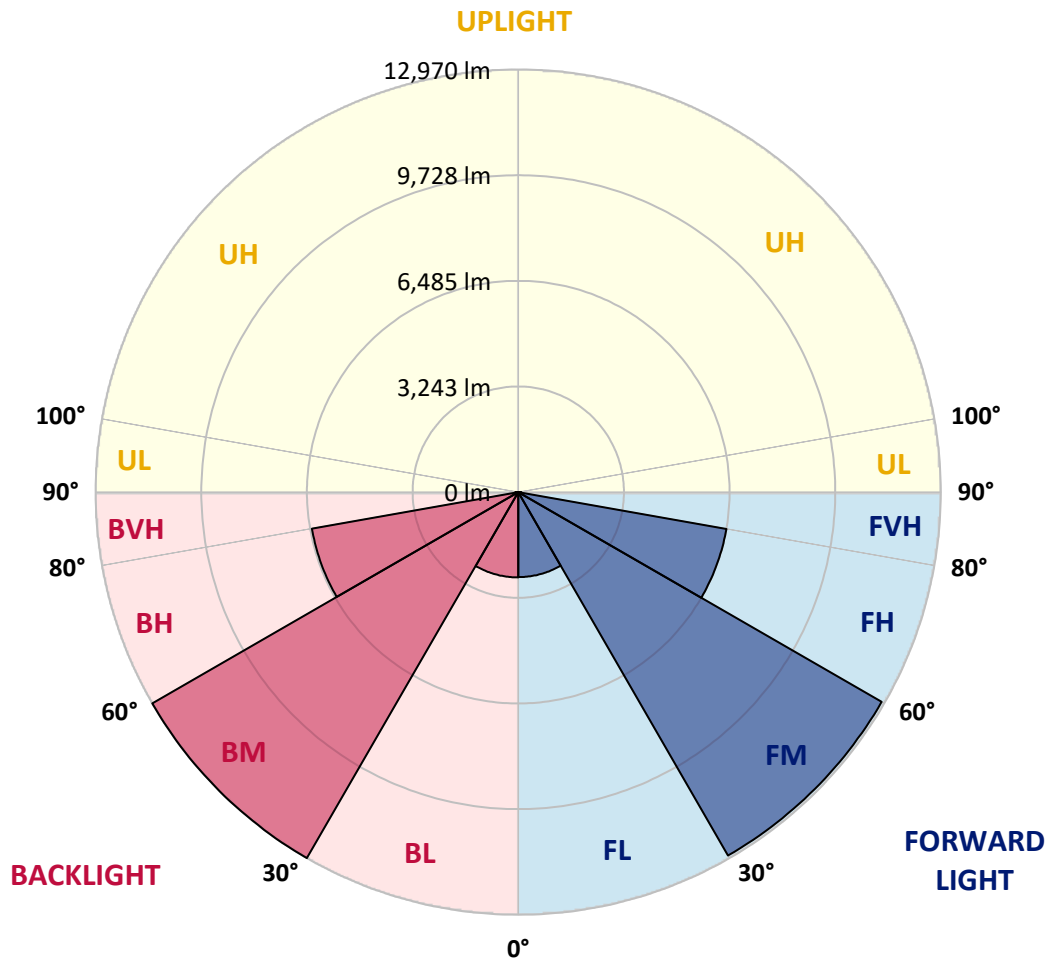
REPORT NUMBER: P479125
 CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2607.5	5.9			
FM (30°-60°)	12877.3	29.1			
FH (60°-80°)	6488.4	14.7			G3/7500
FVH (80°-90°)	96.1	0.2			G1/100
BL (0°-30°)	2617.5	5.9	B4/5000		
BM (30°-60°)	12970.2	29.4	B5		
BH (60°-80°)	6432.4	14.6	B5		G3/7500
BVH (80°-90°)	91.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P479125
 CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7
2.5°	5111.9	5122.0	5213.2	5177.7	5208.1	5152.4	5192.9	5279.0	5177.7	5253.7	5279.0
5°	5167.6	5182.8	5182.8	5218.3	5238.5	5228.4	5253.7	5218.3	5314.5	5274.0	5334.8
7.5°	5370.2	5344.9	5304.4	5334.8	5339.8	5365.2	5390.5	5436.1	5420.9	5385.4	5446.2
10°	5405.7	5385.4	5446.2	5451.3	5426.0	5405.7	5431.0	5431.0	5476.6	5486.8	5486.8
12.5°	5466.5	5486.8	5481.7	5522.2	5527.3	5512.1	5552.6	5628.6	5608.4	5623.6	5588.1
15°	5699.5	5674.2	5669.1	5709.7	5775.5	5679.3	5750.2	5745.1	5724.9	5755.3	5674.2
17.5°	5902.2	5821.1	5856.6	5922.5	5897.1	5917.4	6008.6	5927.5	5947.8	5912.3	5887.0
20°	6079.5	6013.7	6018.7	6044.1	6044.1	6104.8	6140.3	6109.9	6089.6	6084.6	6094.7
22.5°	6277.1	6201.1	6206.2	6312.6	6348.0	6327.8	6302.4	6353.1	6363.2	6322.7	6368.3
25°	6424.0	6505.1	6530.4	6581.1	6505.1	6560.8	6540.5	6636.8	6697.6	6616.5	6672.3
27.5°	6809.1	6773.6	6839.5	6834.4	6895.2	6839.5	6874.9	6905.3	6930.6	6935.7	6910.4
30°	7153.6	7168.8	7102.9	7280.2	7138.4	7229.6	7290.4	7305.6	7335.9	7335.9	7260.0
32.5°	7518.3	7487.9	7594.3	7553.8	7528.5	7599.4	7533.5	7741.3	7619.7	7690.6	7604.5
35°	7928.7	7928.7	7969.2	8080.7	7928.7	7883.1	8004.7	8090.8	8090.8	7964.2	7994.6
37.5°	8389.7	8349.2	8399.9	8541.7	8425.2	8273.2	8496.1	8531.6	8506.3	8470.8	8410.0
40°	8714.0	8703.8	8805.2	8992.6	8825.4	8795.0	8835.6	8931.8	8962.2	8997.7	8916.6
42.5°	9261.1	9306.7	9600.6	9555.0	9418.2	9311.8	9301.7	9661.4	9575.2	9484.0	9438.4
45°	10071.7	10031.2	10183.2	10188.3	10010.9	9777.9	9828.6	10157.9	10304.8	10102.1	10178.1
47.5°	10715.1	10735.4	10841.8	11059.7	10649.3	10406.1	10593.6	11125.5	11079.9	11003.9	11074.9
50°	11576.4	11667.6	12002.0	11926.0	11561.2	11262.3	11672.7	12174.2	12230.0	11951.3	11900.7
52.5°	12767.0	12908.8	13091.2	13152.0	12802.4	12696.1	12721.4	13344.5	13207.7	12939.2	12767.0
55°	13810.6	13876.5	14210.9	14712.4	14687.1	14175.4	14469.2	14702.3	14145.0	13592.8	13638.4
57.5°	14256.5	14286.9	15219.1	16222.2	16820.0	16936.5	16602.1	15816.9	14489.5	13425.6	13359.7
60°	13147.0	13435.7	14560.4	16825.1	19555.8	20903.4	18679.3	15943.5	13684.0	12392.1	12295.8
62.5°	10507.4	10522.6	12194.5	15629.4	21258.0	24789.2	19474.7	14753.0	11535.9	10071.7	9686.7
64°	7482.9	7624.7	9544.8	13836.0	20903.4	26369.9	19378.5	13197.6	9509.4	7432.2	7163.7
65°	5370.2	5567.8	7422.1	12012.1	20072.5	26182.5	19089.7	11860.1	7690.6	5674.2	5400.6
67.5°	1975.8	2056.9	2913.1	6008.6	14413.5	22311.8	15127.9	6520.3	3379.2	2406.5	2163.3
70°	917.0	922.1	1079.1	1986.0	6302.4	14920.1	7219.4	2447.0	1271.6	1008.2	937.3
72.5°	673.8	689.0	754.9	917.0	1854.3	6317.6	2371.0	1003.1	744.7	658.6	643.4
75°	547.2	557.3	577.6	663.7	856.2	1692.1	962.6	694.1	592.8	532.0	511.7
77.5°	420.5	420.5	466.1	506.6	567.4	790.3	638.3	552.2	481.3	420.5	405.3
80°	304.0	309.0	364.8	395.2	385.0	521.8	461.0	456.0	395.2	329.3	304.0
82.5°	177.3	192.5	263.4	283.7	273.6	309.0	334.4	354.6	309.0	228.0	207.7
85°	101.3	106.4	152.0	157.1	157.1	146.9	192.5	212.8	207.7	141.9	126.7
87.5°	30.4	30.4	40.5	40.5	45.6	50.7	76.0	91.2	101.3	70.9	65.9
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: P479125
 CATALOG NUMBER: IFLD-L-SA8D-830-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7	5172.7
2.5°	5253.7	5177.7	5182.8	5203.1	5137.2	5162.5	5238.5	5182.8	5167.6	5137.2	5122.0
5°	5228.4	5309.4	5279.0	5289.2	5274.0	5203.1	5192.9	5238.5	5263.8	5218.3	5309.4
7.5°	5405.7	5370.2	5329.7	5344.9	5309.4	5370.2	5410.8	5319.6	5365.2	5339.8	5289.2
10°	5507.0	5441.2	5471.6	5461.4	5436.1	5496.9	5456.4	5446.2	5405.7	5350.0	5431.0
12.5°	5542.5	5618.5	5669.1	5583.0	5598.2	5567.8	5542.5	5542.5	5496.9	5481.7	5496.9
15°	5699.5	5765.4	5745.1	5811.0	5724.9	5755.3	5785.7	5709.7	5750.2	5638.8	5724.9
17.5°	5988.3	5932.6	6003.5	5917.4	5947.8	6008.6	5912.3	5912.3	5942.7	5881.9	5805.9
20°	6170.7	6145.4	6120.0	6125.1	6074.5	6130.2	6099.8	6084.6	6039.0	6059.3	6099.8
22.5°	6343.0	6307.5	6317.6	6332.8	6368.3	6343.0	6327.8	6343.0	6231.5	6332.8	6191.0
25°	6555.7	6652.0	6621.6	6687.5	6586.1	6652.0	6646.9	6550.7	6611.5	6570.9	6540.5
27.5°	6910.4	6859.7	6905.3	6824.3	6895.2	6900.3	6839.5	7001.6	6930.6	6920.5	6900.3
30°	7366.3	7330.9	7300.5	7254.9	7310.6	7265.0	7315.7	7330.9	7265.0	7214.4	7118.1
32.5°	7624.7	7721.0	7756.4	7645.0	7650.1	7675.4	7629.8	7584.2	7624.7	7639.9	7624.7
35°	7989.5	8080.7	8101.0	8014.8	7969.2	8095.9	8004.7	8156.7	8025.0	8030.0	7893.2
37.5°	8415.1	8440.4	8612.6	8516.4	8475.9	8415.1	8582.3	8562.0	8592.4	8349.2	8470.8
40°	8896.4	8987.6	9083.8	8840.6	8835.6	8891.3	8881.2	8997.7	8942.0	8906.5	8820.4
42.5°	9423.3	9615.8	9631.0	9468.8	9367.5	9357.4	9408.1	9666.4	9671.5	9438.4	9337.1
45°	10122.4	10335.2	10279.4	9965.3	9853.9	9838.7	10086.9	10198.4	10294.6	10203.5	10117.3
47.5°	10993.8	11135.6	11095.1	10806.3	10446.6	10548.0	10791.1	11140.7	11039.4	10917.8	10816.5
50°	11926.0	12093.2	12007.0	11718.3	11373.8	11373.8	11672.7	12118.5	12088.1	11850.0	11758.8
52.5°	12959.5	13202.7	13400.3	12989.9	12701.1	12746.7	13217.9	13380.0	13304.0	13136.8	13060.8
55°	13729.6	14195.7	14601.0	14621.2	14636.4	14631.4	14753.0	14915.1	14373.0	14104.5	13830.9
57.5°	13542.1	14423.7	15811.8	16754.1	17032.8	17179.7	17139.2	16389.4	15107.6	14226.1	14317.3
60°	12204.6	13643.4	15882.7	18907.3	20933.8	20731.2	19991.5	17027.7	14702.3	13212.8	13025.4
62.5°	9737.4	11470.0	14692.2	19515.2	25098.3	25037.5	21166.8	15553.4	12250.2	10365.6	10249.1
64°	7335.9	9159.8	13106.4	19358.2	26557.4	26618.1	20867.9	13739.7	9585.4	7335.9	7158.6
65°	5613.4	7305.6	11551.1	19034.0	26243.2	26278.7	20037.1	11865.2	7285.3	5208.1	5015.6
67.5°	2234.2	3110.7	6267.0	14433.8	22534.7	22438.5	14297.0	5740.1	2786.4	1813.7	1778.3
70°	952.5	1185.5	2198.8	6839.5	15087.3	14808.7	6155.5	1864.4	1033.5	866.3	861.3
72.5°	653.5	724.5	942.3	2112.6	6272.0	6125.1	1752.9	866.3	704.2	648.5	648.5
75°	526.9	577.6	683.9	886.6	1661.7	1600.9	825.8	638.3	562.4	521.8	516.8
77.5°	410.4	461.0	537.0	613.0	759.9	754.9	552.2	481.3	435.7	405.3	395.2
80°	324.2	374.9	425.6	435.7	496.5	486.4	374.9	380.0	354.6	293.8	288.8
82.5°	222.9	304.0	339.4	309.0	293.8	293.8	268.5	268.5	248.2	182.4	167.2
85°	136.8	202.7	212.8	182.4	136.8	136.8	146.9	141.9	131.7	96.3	91.2
87.5°	70.9	96.3	86.1	70.9	45.6	45.6	40.5	30.4	30.4	25.3	25.3
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)