

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: P480439

Luminaire Tested: **IFLD-M-SA4B-730-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

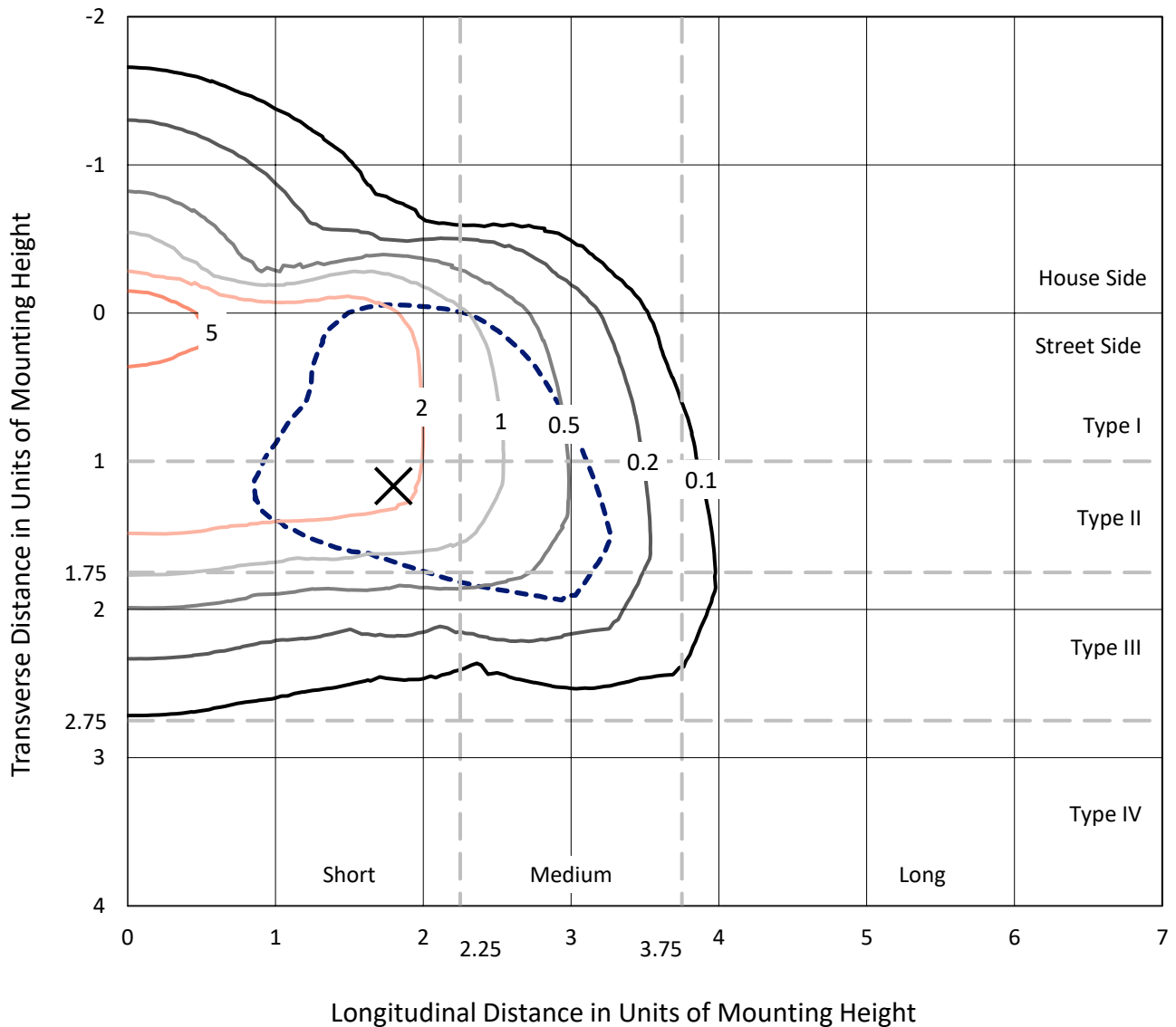
Lumens per Lamp: N/A
Luminaire Lumens: 20521.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

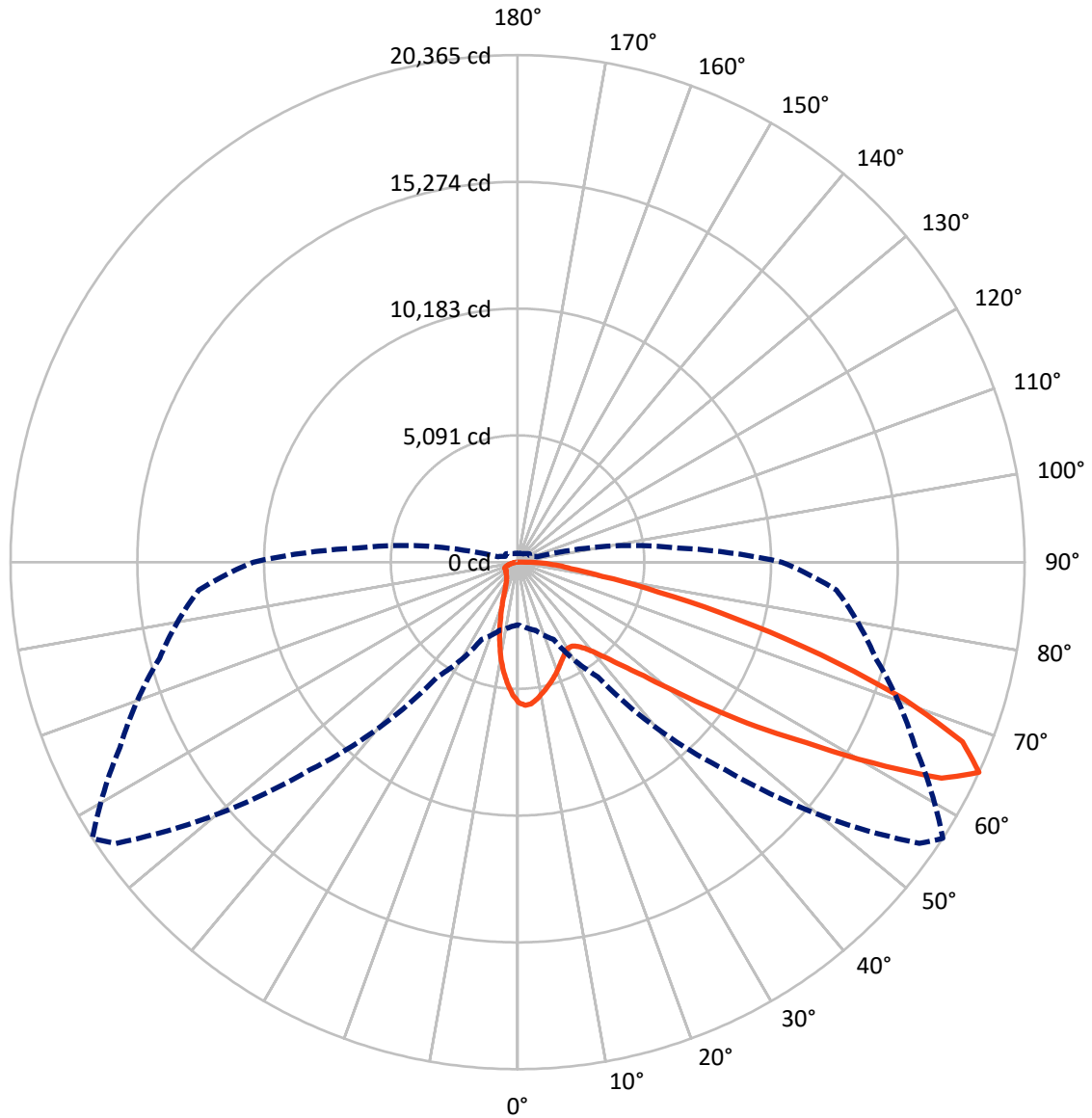
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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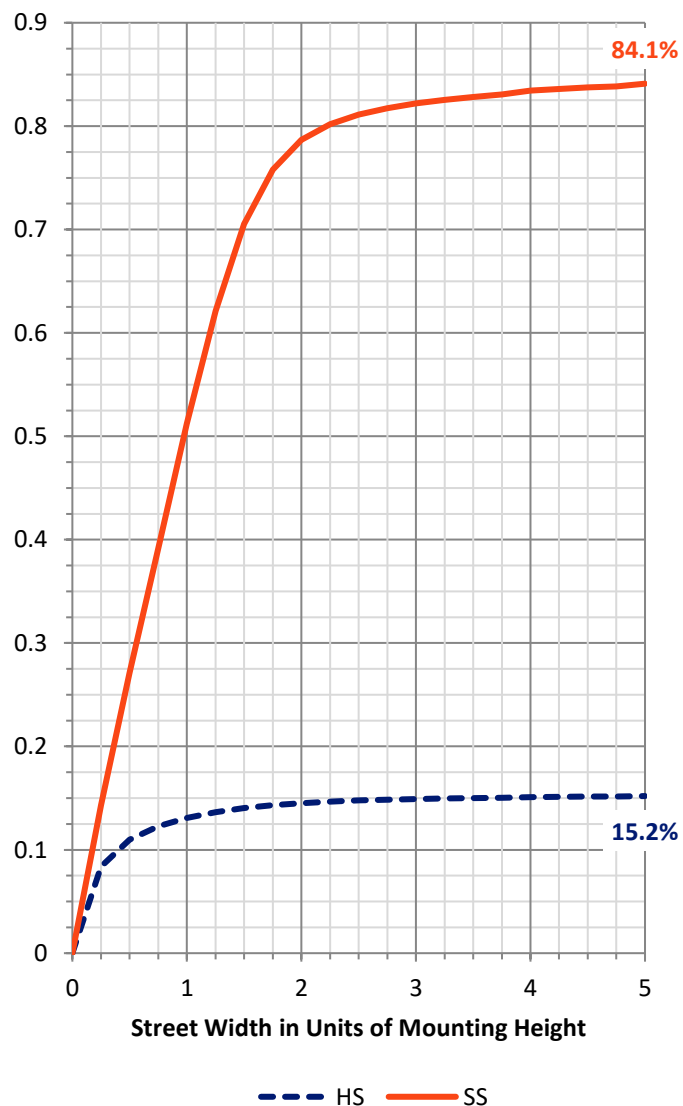
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3147.2	0.0	3147.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17374.3	0.0	17374.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	20521.5	0.0	20521.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	2.3
10°-20°	1017.0	5.0
20°-30°	1314.9	6.4
30°-40°	1769.5	8.6
40°-50°	2821.5	13.7
50°-60°	4983.5	24.3
60°-70°	5482.5	26.7
70°-80°	2293.4	11.2
80°-90°	366.5	1.8
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°	20521.5	100.0
0°-180°	20521.5	100.0

Coefficient of Utilization



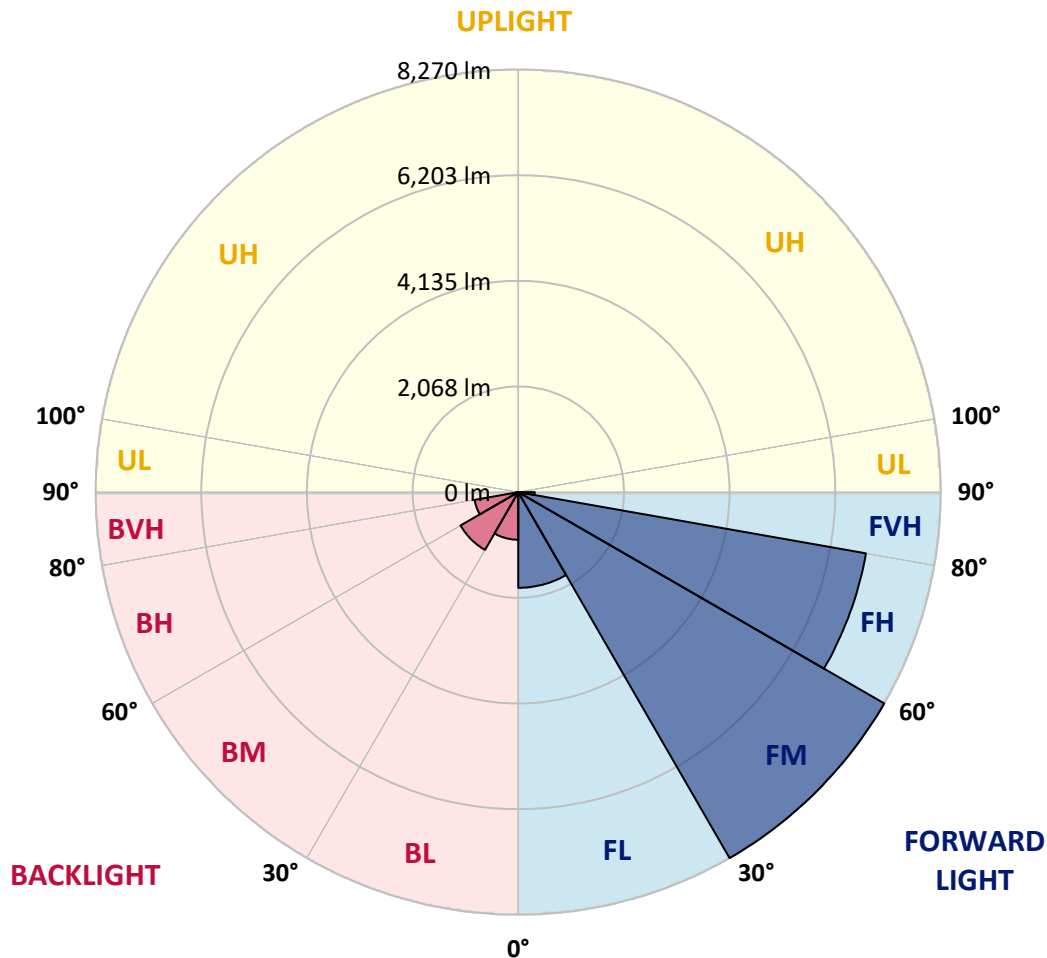
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.5	9.1			
FM (30°-60°)	8270.1	40.3			
FH (60°-80°)	6908.2	33.7			G3/7500
FVH (80°-90°)	323.5	1.6			G3/500
BL (0°-30°)	932.0	4.5	B2/1000		
BM (30°-60°)	1304.4	6.4	B2/2500		
BH (60°-80°)	867.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1
2.5°	5795.5	5804.8	5804.8	5823.2	5760.9	5790.9	5786.3	5758.6	5767.8	5719.3	5670.8
5°	5631.6	5624.7	5661.6	5666.2	5714.7	5728.6	5740.1	5721.6	5726.3	5620.0	5573.9
7.5°	5211.4	5209.0	5271.4	5324.5	5426.1	5520.8	5583.1	5564.6	5590.0	5523.1	5414.5
10°	4712.6	4765.7	4830.4	4883.5	5070.5	5190.6	5352.2	5368.4	5465.3	5449.2	5252.9
12.5°	4338.6	4361.6	4410.1	4562.5	4733.4	4932.0	5162.9	5183.6	5278.3	5324.5	5153.6
15°	4031.5	4052.2	4114.6	4227.7	4419.4	4654.9	4948.1	5001.2	5190.6	5206.7	5024.3
17.5°	3807.5	3823.7	3865.2	3978.4	4135.4	4437.8	4714.9	4809.6	5059.0	5137.5	4890.4
20°	3719.8	3685.1	3708.2	3779.8	3936.8	4170.0	4527.9	4611.0	4929.7	5084.4	4763.4
22.5°	3680.5	3650.5	3664.3	3659.7	3784.4	3950.7	4327.0	4414.8	4807.3	5022.0	4650.3
25°	3710.5	3710.5	3696.7	3685.1	3699.0	3807.5	4110.0	4246.2	4643.3	4968.9	4534.8
27.5°	3872.1	3809.8	3816.7	3768.2	3754.4	3754.4	4013.0	4093.8	4590.2	4938.9	4440.2
30°	3976.1	4006.1	4008.4	3936.8	3865.2	3735.9	3922.9	4001.4	4546.4	4975.8	4384.7
32.5°	4241.6	4227.7	4188.5	4174.6	4068.4	3922.9	3966.8	4019.9	4521.0	5059.0	4400.9
35°	4507.1	4500.2	4502.5	4495.6	4384.7	4170.0	4084.6	4156.2	4567.1	5204.4	4456.3
37.5°	4781.9	4800.4	4878.9	4878.9	4761.1	4527.9	4414.8	4394.0	4735.7	5442.2	4587.9
40°	5056.7	5102.8	5202.1	5359.1	5192.9	4975.8	4793.4	4761.1	4938.9	5760.9	4904.3
42.5°	5319.9	5396.1	5592.3	5825.5	5770.1	5553.1	5310.6	5273.7	5356.8	6234.2	5345.3
45°	5657.0	5721.6	6031.0	6388.9	6465.1	6273.5	5989.5	5959.5	5954.8	6926.9	5952.5
47.5°	6169.6	6238.8	6548.2	6908.4	7144.0	7174.0	6855.3	6823.0	6712.2	7862.1	6841.5
50°	6811.5	6924.6	7185.5	7605.8	7947.5	8268.4	8178.4	8083.7	7866.7	8949.6	7968.3
52.5°	7280.2	7418.7	7772.0	8310.0	8912.6	9422.9	9746.2	9746.2	9247.4	10143.3	9323.6
55°	7404.9	7488.0	7933.6	8711.8	9743.9	11034.6	11711.1	11660.3	10891.4	11399.4	10900.7
57.5°	6908.4	7017.0	7557.3	8372.3	10180.3	12542.3	13662.2	13673.7	12687.8	12858.7	12456.9
60°	5541.5	5576.2	6213.4	7303.3	9760.0	13756.9	16326.7	16370.6	14731.2	14158.6	13248.9
62.5°	3830.6	3941.4	4421.7	5377.6	8086.0	13620.6	18896.6	19113.7	16368.3	14844.4	13373.6
65°	2521.4	2588.4	2844.7	3426.5	5629.3	11805.8	19695.5	20365.1	17619.8	14883.6	12851.7
67.5°	1828.7	1840.3	1916.4	2216.6	3382.6	8490.1	18330.9	19275.3	18088.5	14555.8	11628.0
70°	1477.7	1487.0	1514.7	1706.3	2184.3	5312.9	14950.6	16430.7	16682.3	13001.8	9365.2
72.5°	1200.7	1212.2	1246.8	1426.9	1801.0	2955.5	10933.0	12736.3	13569.8	9619.2	6225.0
75°	944.4	953.6	1036.7	1214.5	1692.5	2029.6	7252.5	9018.8	9132.0	5622.3	2913.9
77.5°	646.5	662.7	764.3	1029.8	1593.2	1775.6	4521.0	5777.0	5183.6	2200.5	1002.1
80°	411.0	434.1	494.1	780.4	1408.5	1694.8	2812.3	3449.6	2269.7	752.7	482.6
82.5°	242.4	265.5	325.6	505.7	1106.0	1572.4	1981.1	2158.9	1064.4	385.6	290.9
85°	133.9	150.1	196.3	304.8	648.8	1396.9	1586.3	1549.3	609.6	205.5	182.4
87.5°	43.9	50.8	71.6	122.4	267.8	658.1	951.3	893.6	316.3	94.7	71.6
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°	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1	5643.1
2.5°	5638.5	5631.6	5527.7	5449.2	5315.3	5204.4	5160.6	5100.5	5098.2	5054.3	5042.8
5°	5502.3	5430.7	5271.4	5119.0	4881.2	4721.8	4576.4	4474.8	4433.2	4343.2	4322.4
7.5°	5326.8	5232.1	4987.4	4701.1	4421.7	4172.3	3946.0	3719.8	3592.8	3548.9	3500.4
10°	5144.4	4978.1	4615.6	4294.7	3904.5	3521.2	3165.6	2847.0	2673.8	2551.4	2498.3
12.5°	4998.9	4777.3	4315.5	3835.2	3320.3	2807.7	2394.4	2059.6	1863.3	1771.0	1729.4
15°	4835.0	4541.7	3987.6	3380.3	2738.4	2156.6	1752.5	1489.3	1410.8	1366.9	1360.0
17.5°	4661.8	4322.4	3632.0	2932.4	2170.4	1623.2	1362.3	1256.1	1221.4	1203.0	1193.7
20°	4500.2	4126.1	3267.2	2433.7	1699.4	1302.3	1179.9	1124.5	1122.2	1131.4	1129.1
22.5°	4271.6	3869.8	2907.0	1971.9	1357.7	1133.7	1055.2	1041.3	1055.2	1066.7	1071.4
25°	4142.3	3659.7	2505.2	1565.5	1122.2	1006.7	981.3	976.7	997.5	1011.3	1009.0
27.5°	4008.4	3442.7	2131.2	1253.8	983.6	916.7	912.0	916.7	937.4	958.2	955.9
30°	3904.5	3269.5	1780.2	1048.3	877.4	852.0	847.4	852.0	863.6	865.9	865.9
32.5°	3819.0	3064.0	1482.4	909.7	812.8	792.0	796.6	794.3	796.6	798.9	801.2
35°	3768.2	2941.6	1237.6	824.3	759.7	743.5	741.2	734.3	736.6	738.9	736.6
37.5°	3876.8	2881.6	1043.7	764.3	722.7	708.9	704.2	699.6	692.7	692.7	692.7
40°	4040.7	2849.3	925.9	725.0	695.0	678.8	665.0	660.4	660.4	662.7	665.0
42.5°	4366.3	2902.4	845.1	695.0	660.4	641.9	628.0	630.3	637.3	644.2	639.6
45°	4837.3	3064.0	808.1	671.9	639.6	614.2	605.0	602.6	609.6	621.1	630.3
47.5°	5453.8	3315.7	794.3	651.1	625.7	591.1	579.6	586.5	595.7	611.9	605.0
50°	6462.8	3881.4	805.8	632.7	605.0	579.6	565.7	558.8	565.7	577.2	581.9
52.5°	7781.2	4908.9	849.7	623.4	591.1	570.3	547.2	535.7	542.6	551.8	551.8
55°	9358.3	6312.7	972.1	611.9	568.0	556.5	531.1	508.0	512.6	512.6	510.3
57.5°	10748.3	7372.6	1117.5	595.7	554.2	538.0	505.7	478.0	473.3	475.6	478.0
60°	11371.7	7654.2	1186.8	591.1	554.2	514.9	471.0	443.3	436.4	431.8	431.8
62.5°	11263.2	7167.1	1046.0	570.3	568.0	496.4	438.7	408.7	399.5	390.2	392.5
65°	10607.4	6472.1	824.3	542.6	570.3	484.9	406.4	376.4	360.2	348.7	346.3
67.5°	9409.1	5525.4	653.4	521.8	547.2	464.1	378.7	344.0	330.2	318.6	314.0
70°	7361.0	4331.6	568.0	494.1	491.8	413.3	346.3	316.3	295.5	281.7	281.7
72.5°	4772.6	2738.4	487.2	438.7	424.9	346.3	300.2	281.7	265.5	254.0	254.0
75°	2161.2	1272.2	392.5	367.1	346.3	277.1	254.0	244.8	230.9	219.4	219.4
77.5°	775.8	542.6	293.2	288.6	258.6	214.7	205.5	198.6	189.3	177.8	177.8
80°	434.1	344.0	219.4	210.1	180.1	159.3	147.8	147.8	143.2	136.2	133.9
82.5°	274.8	224.0	161.6	140.8	117.8	106.2	101.6	99.3	97.0	87.7	85.4
85°	173.2	152.4	106.2	83.1	69.3	53.1	50.8	48.5	43.9	39.3	39.3
87.5°	78.5	87.7	41.6	25.4	18.5	11.5	6.9	2.3	0.0	0.0	0.0
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)