

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: P480287

Luminaire Tested: **IFLD-L-SA7A-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

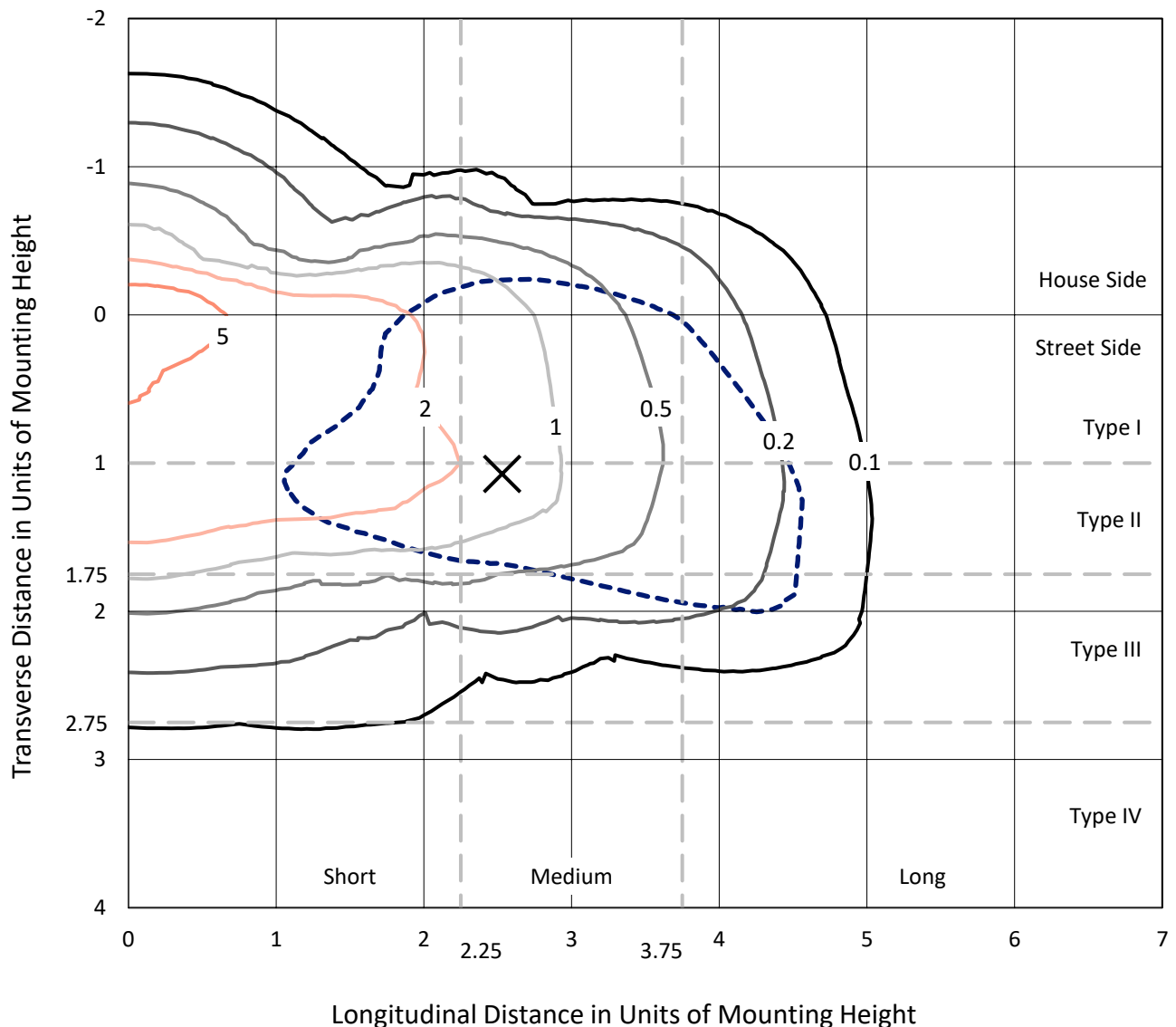
Lumens per Lamp: N/A
Luminaire Lumens: 24798.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

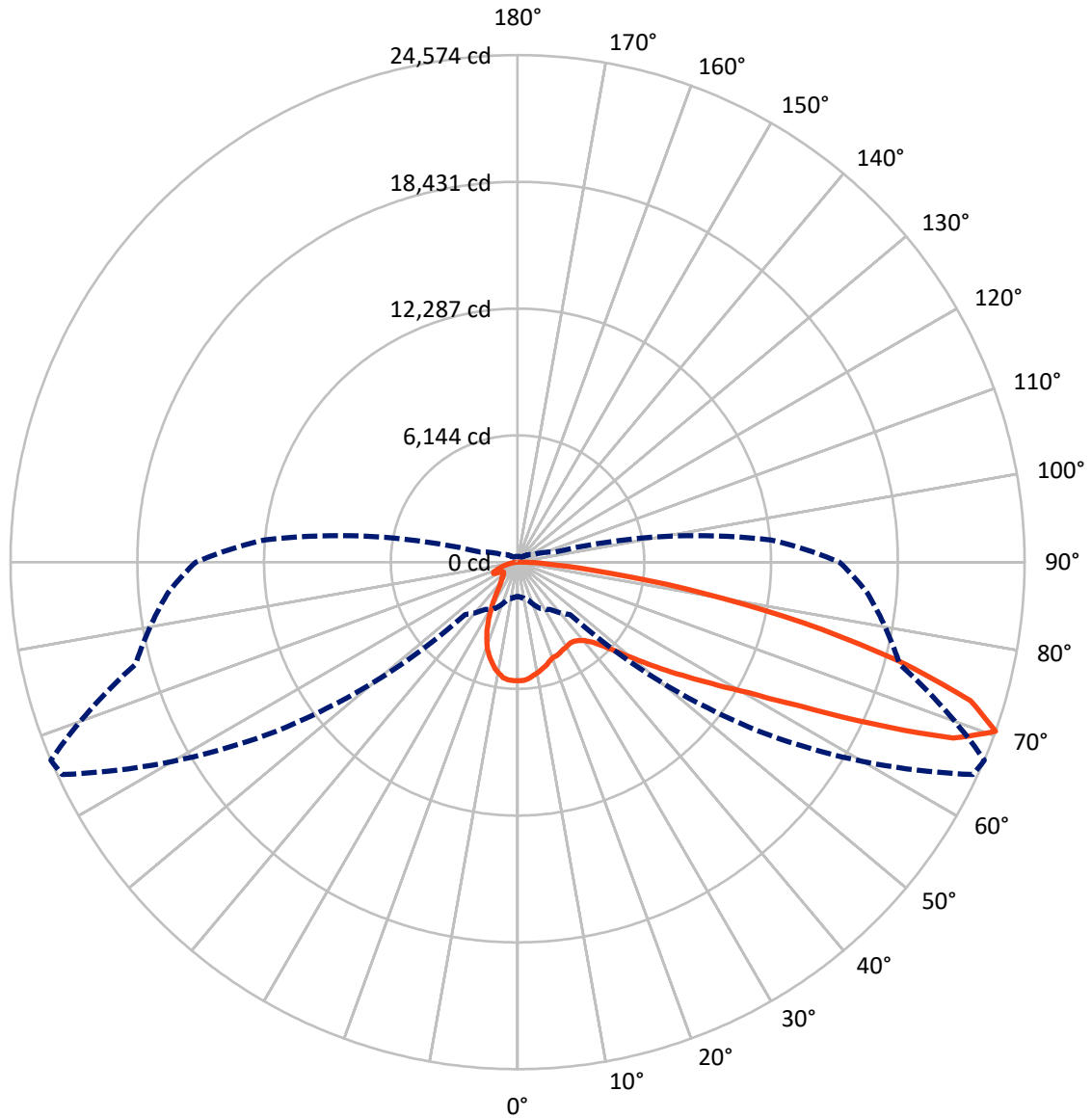
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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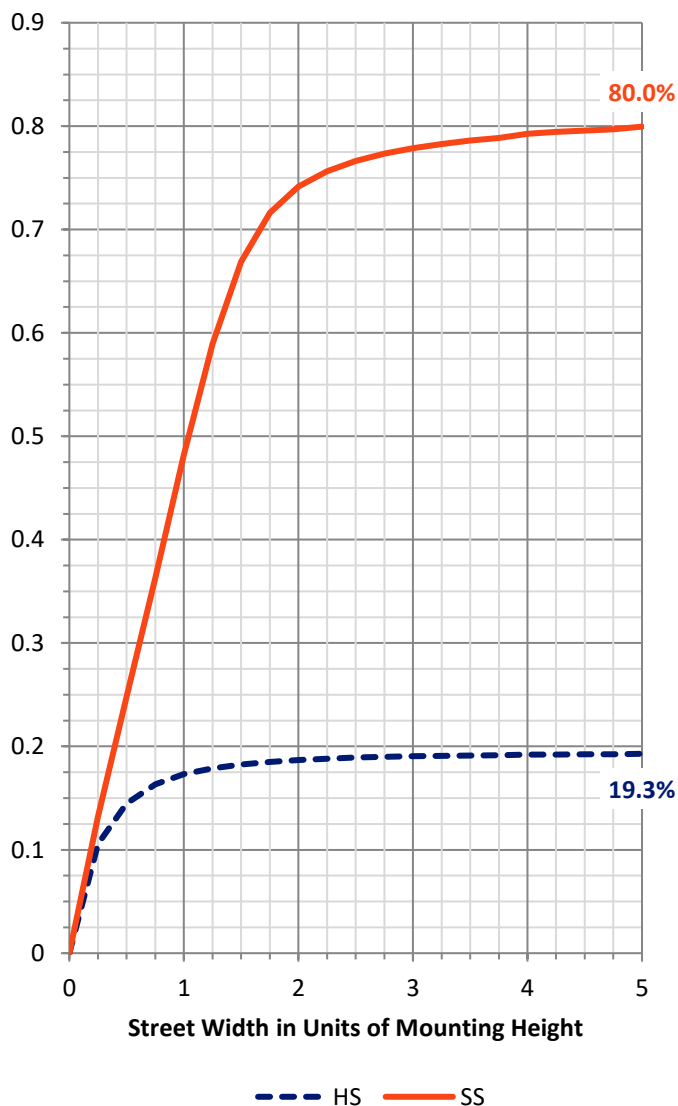
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4829.7	0.0	4829.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19968.5	0.0	19968.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	24798.2	0.0	24798.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.9	2.0
10°-20°	1199.6	4.8
20°-30°	1620.0	6.5
30°-40°	2167.7	8.7
40°-50°	3187.5	12.9
50°-60°	4968.6	20.0
60°-70°	6120.5	24.7
70°-80°	4324.7	17.4
80°-90°	708.8	2.9
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°	24798.2	100.0
0°-180°	24798.2	100.0

Coefficient of Utilization

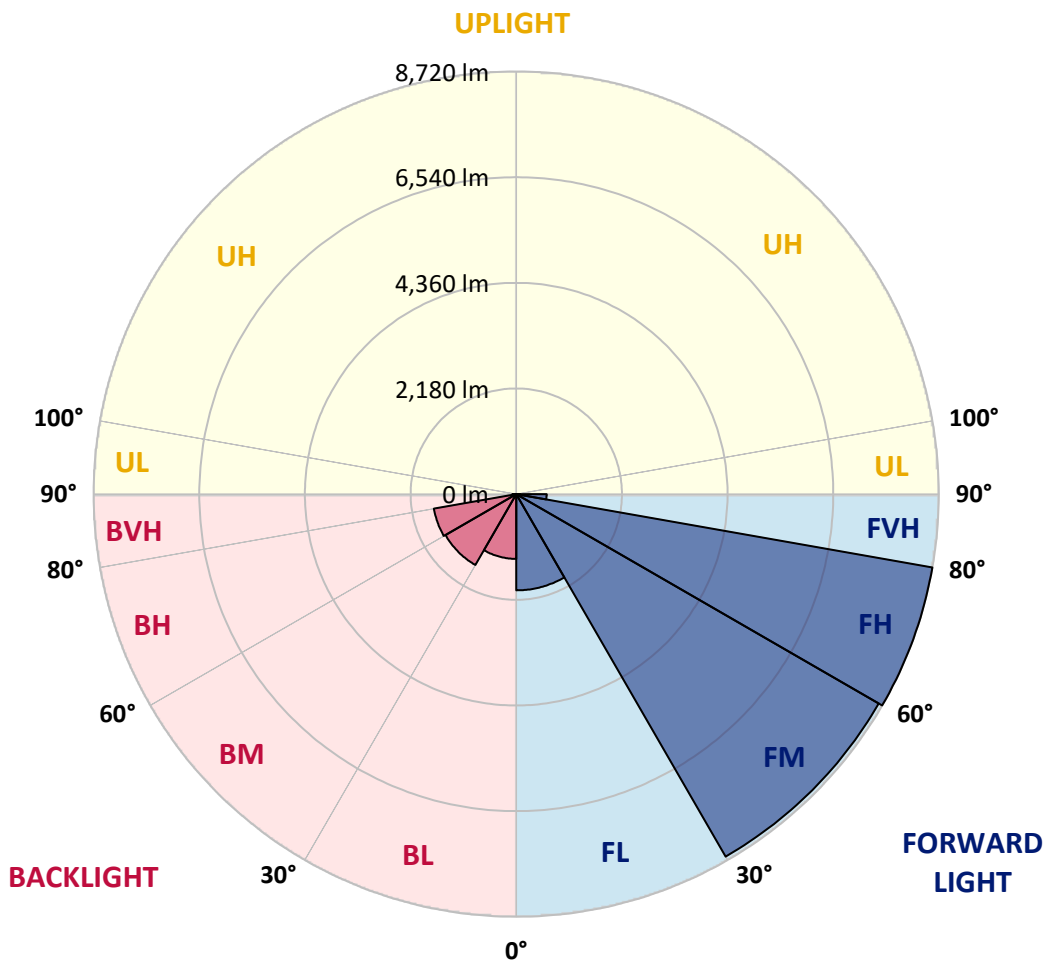


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.9	8.0			
FM (30°-60°)	8636.7	34.8			
FH (60°-80°)	8719.9	35.2			G4/12000
FVH (80°-90°)	627.1	2.5			G4/750
BL (0°-30°)	1335.6	5.4	B3/2500		
BM (30°-60°)	1687.1	6.8	B2/2500		
BH (60°-80°)	1725.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7
2.5°	5345.4	5405.8	5427.7	5460.7	5545.8	5608.9	5647.4	5691.3	5743.5	5787.4	5814.8
5°	4972.0	5004.9	5057.1	5092.8	5199.9	5370.1	5485.4	5672.1	5666.6	5735.2	5839.5
7.5°	4609.6	4642.5	4667.2	4738.6	4892.4	5046.1	5257.5	5559.5	5537.5	5696.8	5858.8
10°	4384.5	4359.8	4368.0	4488.8	4609.6	4782.6	5048.9	5356.3	5436.0	5683.1	5913.7
12.5°	4173.1	4145.6	4211.5	4288.4	4436.6	4593.1	4911.6	5188.9	5309.7	5633.6	5938.4
15°	4041.3	4022.1	4104.4	4137.4	4313.1	4499.8	4724.9	5062.6	5194.4	5573.2	5899.9
17.5°	3967.2	3983.6	4013.8	4085.2	4197.8	4357.0	4604.1	4977.5	5035.1	5499.1	5891.7
20°	3980.9	4000.1	4002.8	4033.0	4109.9	4233.5	4486.0	4886.9	4925.3	5485.4	5913.7
22.5°	4090.7	4063.2	4074.2	4055.0	4077.0	4173.1	4395.4	4766.1	4914.3	5370.1	5867.0
25°	4255.4	4217.0	4211.5	4145.6	4104.4	4131.9	4379.0	4735.9	4832.0	5334.4	5864.3
27.5°	4546.4	4488.8	4488.8	4390.0	4222.5	4178.6	4332.3	4686.5	4771.6	5301.4	5801.1
30°	4826.5	4826.5	4829.2	4689.2	4502.5	4285.6	4351.5	4667.2	4722.2	5202.6	5716.0
32.5°	5166.9	5158.7	5144.9	5076.3	4788.0	4464.1	4444.9	4642.5	4670.0	5169.7	5691.3
35°	5499.1	5477.1	5584.2	5523.8	5230.1	4812.8	4541.0	4653.5	4713.9	5120.2	5614.4
37.5°	5748.9	5762.7	5985.1	6023.5	5770.9	5208.1	4812.8	4763.3	4821.0	5191.6	5614.4
40°	6072.9	6127.8	6336.5	6465.5	6311.8	5729.7	5243.8	4947.3	4988.5	5350.9	5735.2
42.5°	6498.4	6545.1	6811.4	6978.9	6935.0	6394.1	5669.3	5331.6	5298.7	5617.2	5916.4
45°	7061.3	7069.5	7338.6	7569.2	7659.8	7088.7	6344.7	5817.6	5790.1	6075.7	6248.6
47.5°	7731.2	7722.9	7890.4	8137.5	8381.8	7917.8	7121.7	6556.1	6457.3	6731.8	6800.4
50°	8379.1	8343.4	8381.8	8697.5	9167.0	8955.6	8066.1	7459.4	7360.5	7511.5	7629.6
52.5°	8736.0	8779.9	8675.6	9092.9	10001.6	10182.8	9318.0	8538.3	8453.2	8527.3	8733.2
55°	8486.1	8576.7	8508.1	8903.5	10366.8	11679.1	10937.8	9787.5	9677.7	9650.2	9987.9
57.5°	7423.7	7588.4	7602.1	8228.1	10240.5	12837.7	13216.5	11261.8	11097.1	10817.0	11165.7
60°	5699.5	5864.3	5990.5	6731.8	9158.8	13529.5	15857.6	13359.3	12815.7	12090.9	12299.6
62.5°	3994.6	4107.2	4233.5	4689.2	7061.3	13123.2	18141.8	16313.4	15311.3	13433.4	13694.2
65°	2910.2	2998.0	3127.1	3396.1	4337.8	10858.2	19201.6	19822.1	18872.1	15141.1	15108.1
67.5°	2190.9	2245.8	2416.0	2847.0	3006.3	6707.1	18103.4	23528.4	22759.7	17038.2	16244.8
70°	1658.2	1704.9	1864.2	2454.4	2808.6	3596.5	14281.8	24354.8	24574.4	19165.9	17008.0
72.5°	1142.1	1194.3	1372.7	2045.4	2674.1	2852.5	8963.9	22125.5	22957.3	20041.7	16189.8
75°	700.1	735.8	840.1	1551.2	2654.8	2789.4	4933.6	18130.9	19012.2	18518.0	14163.7
77.5°	494.2	491.4	510.7	908.7	2300.7	2805.8	3041.9	13285.2	14141.7	13647.6	9611.8
80°	359.7	362.4	381.6	543.6	1562.2	2852.5	2396.8	8898.0	9153.3	7116.2	3791.4
82.5°	216.9	227.9	274.5	367.9	938.9	2575.2	2215.6	4944.5	4626.1	2284.2	1043.3
85°	115.3	115.3	162.0	233.4	499.7	1921.8	2133.2	2352.8	1971.2	708.3	387.1
87.5°	27.5	27.5	46.7	93.3	200.4	919.7	1455.1	936.2	749.5	238.9	159.2
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°	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7	5740.7
2.5°	5803.9	5770.9	5812.1	5729.7	5663.8	5666.6	5565.0	5559.5	5545.8	5474.4	5499.1
5°	5869.7	5842.3	5795.6	5705.0	5559.5	5414.0	5326.1	5213.6	5166.9	5142.2	5153.2
7.5°	5932.9	5883.5	5748.9	5622.7	5397.5	5123.0	4963.8	4812.8	4620.6	4598.6	4560.2
10°	5949.4	5845.0	5672.1	5403.0	5103.8	4799.0	4436.6	4156.6	4008.3	3893.0	3849.1
12.5°	5924.7	5880.7	5548.5	5202.6	4749.6	4271.9	3849.1	3453.8	3179.2	3036.5	2998.0
15°	5921.9	5845.0	5411.3	4897.9	4318.6	3695.4	3094.1	2619.1	2330.9	2212.8	2212.8
17.5°	5924.7	5740.7	5249.3	4590.4	3810.7	2967.8	2306.2	1916.3	1757.1	1740.6	1754.3
20°	5869.7	5663.8	5079.1	4228.0	3173.7	2229.3	1674.7	1515.5	1515.5	1537.4	1545.7
22.5°	5820.3	5548.5	4810.0	3780.5	2525.8	1614.3	1361.7	1315.1	1367.2	1405.7	1422.1
25°	5751.7	5452.4	4535.5	3316.5	1921.8	1301.3	1183.3	1194.3	1243.7	1312.3	1306.8
27.5°	5652.9	5285.0	4208.8	2778.4	1430.4	1122.9	1092.7	1098.2	1150.3	1180.5	1175.0
30°	5540.3	5114.7	3906.8	2243.0	1133.9	1029.5	1026.8	1040.5	1048.8	1065.2	1062.5
32.5°	5397.5	4889.6	3585.5	1743.4	1021.3	977.4	966.4	958.2	966.4	963.6	955.4
35°	5295.9	4768.8	3258.8	1328.8	958.2	930.7	922.5	908.7	897.8	881.3	878.5
37.5°	5268.5	4648.0	2915.7	1084.4	908.7	895.0	867.6	842.8	829.1	820.9	815.4
40°	5252.0	4568.4	2580.7	952.7	867.6	853.8	820.9	787.9	774.2	766.0	768.7
42.5°	5309.7	4524.5	2240.3	886.8	831.9	807.2	771.5	733.0	730.3	724.8	733.0
45°	5512.8	4579.4	1924.6	840.1	796.2	755.0	708.3	689.1	686.4	680.9	686.4
47.5°	5974.1	4716.7	1655.5	809.9	757.7	722.0	672.6	645.2	642.4	639.7	639.7
50°	6611.0	5139.5	1430.4	774.2	733.0	683.6	636.9	606.7	601.3	590.3	590.3
52.5°	7610.4	5850.5	1295.8	755.0	689.1	647.9	598.5	565.6	551.8	540.9	540.9
55°	8736.0	6731.8	1271.1	722.0	642.4	604.0	560.1	527.1	513.4	499.7	494.2
57.5°	10018.1	7898.6	1446.8	700.1	609.5	560.1	510.7	480.5	469.5	455.7	450.3
60°	11212.4	9062.7	1993.2	667.1	579.3	518.9	469.5	439.3	425.5	411.8	411.8
62.5°	12593.3	10504.0	2918.4	667.1	551.8	475.0	425.5	403.6	395.3	381.6	378.9
65°	14226.9	11994.8	3593.8	708.3	543.6	436.5	384.4	362.4	354.2	345.9	343.2
67.5°	15470.5	12851.4	3091.4	818.1	579.3	403.6	343.2	329.5	324.0	315.7	310.2
70°	15602.3	12329.8	1864.2	884.0	615.0	370.6	307.5	293.8	293.8	285.5	280.0
72.5°	14419.0	10940.6	1254.7	787.9	557.3	332.2	271.8	260.8	255.3	249.8	247.1
75°	12066.2	9279.6	991.1	628.7	428.3	274.5	236.1	225.1	216.9	214.1	208.7
77.5°	8104.5	6031.7	733.0	491.4	315.7	222.4	197.7	186.7	178.5	175.7	167.5
80°	3113.3	2297.9	472.2	356.9	222.4	175.7	156.5	145.5	140.0	131.8	126.3
82.5°	917.0	744.0	263.6	219.6	142.8	120.8	112.6	104.3	96.1	87.9	85.1
85°	378.9	340.4	162.0	115.3	87.9	71.4	65.9	57.7	49.4	43.9	38.4
87.5°	175.7	145.5	74.1	43.9	30.2	16.5	8.2	2.7	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)