

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: P481177

Luminaire Tested: **IFLD-S-SA6D-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481177
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

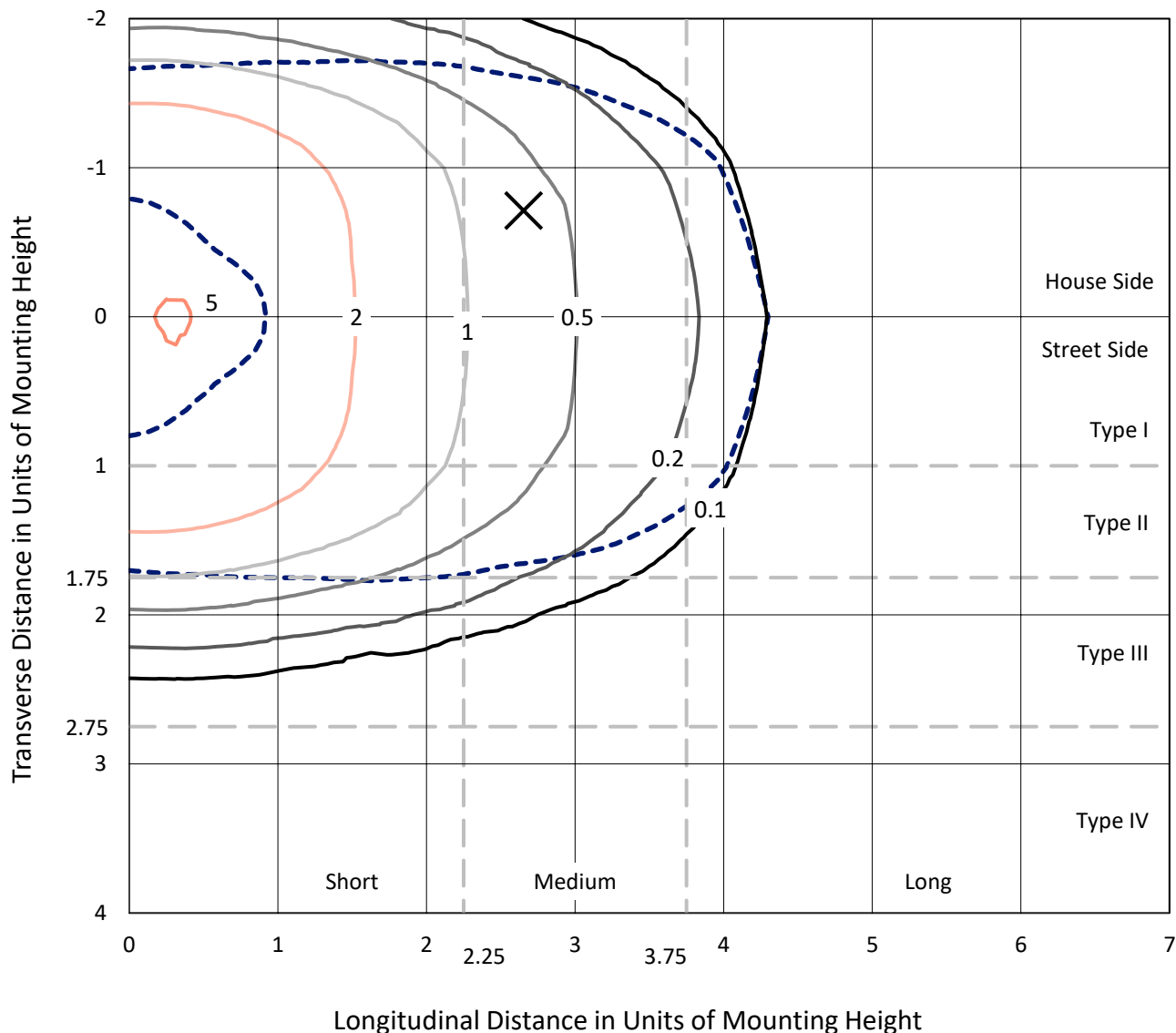
Lumens per Lamp: N/A
Luminaire Lumens: 39385.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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: P481177
 CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

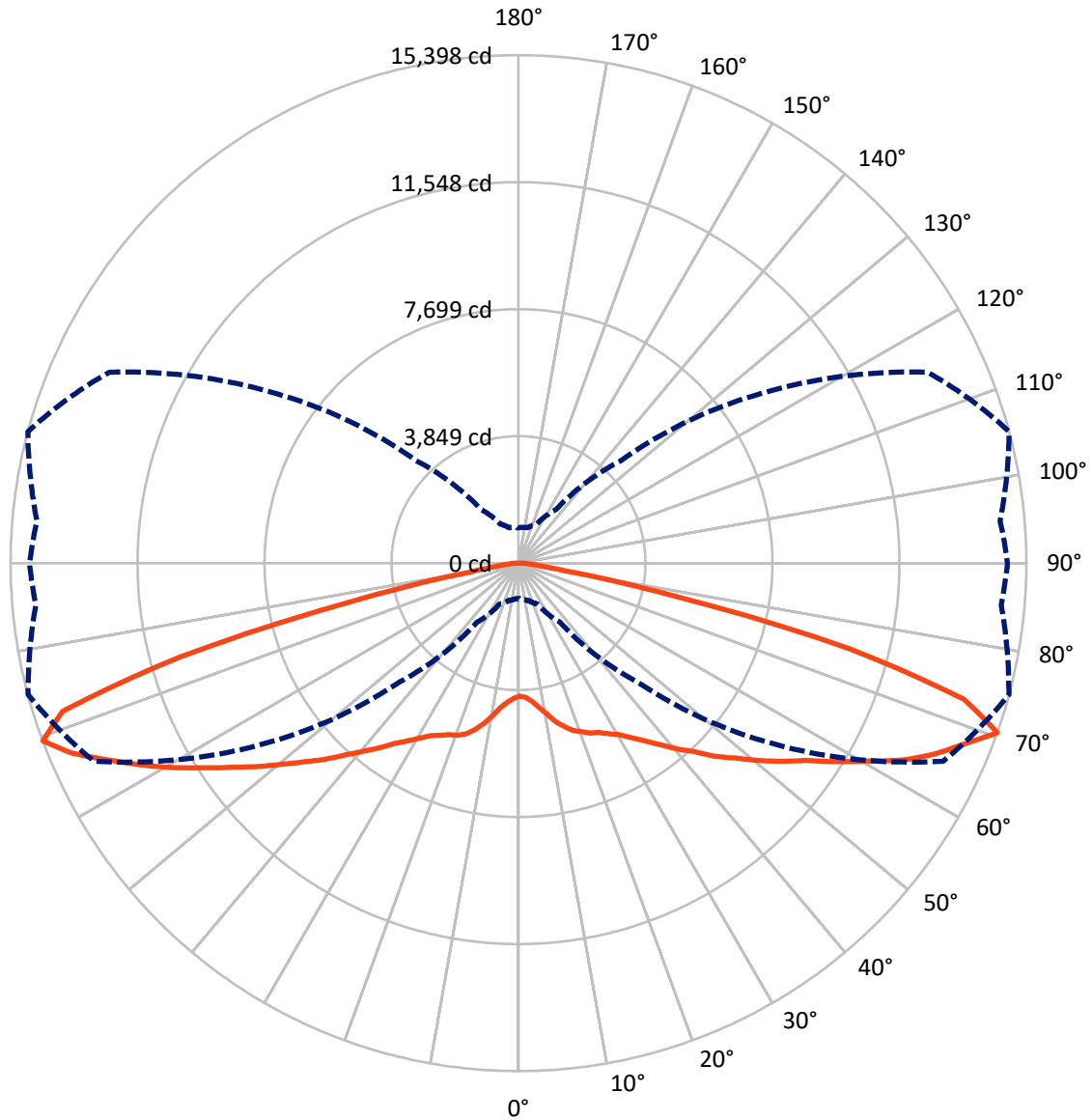
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P481177
CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481177
 CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

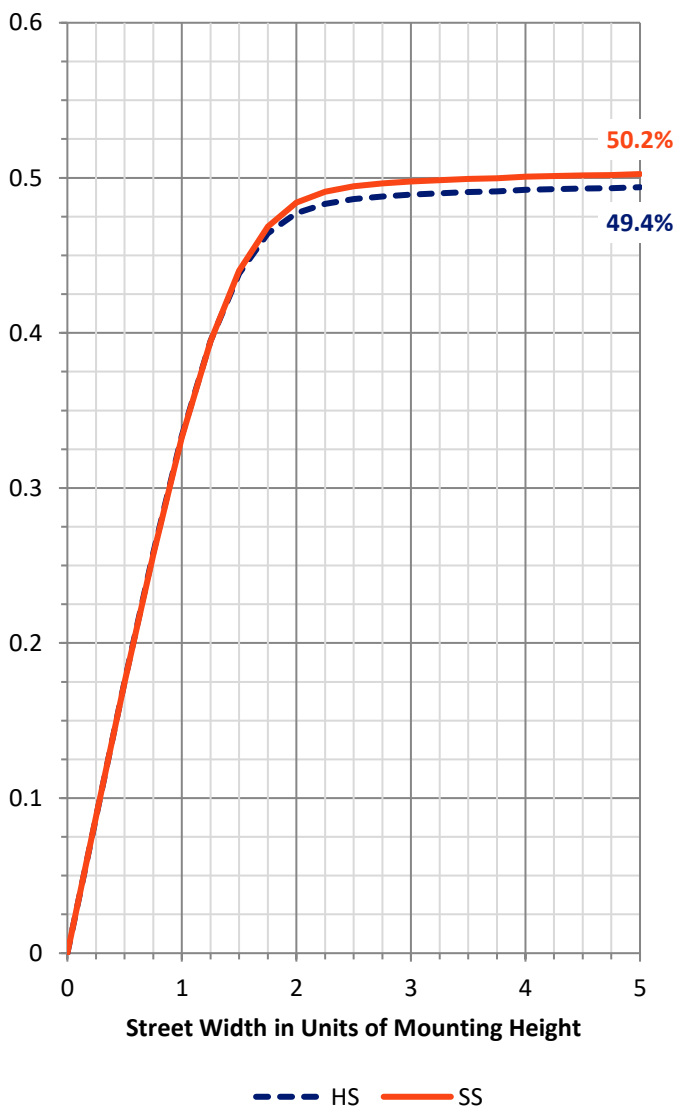
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19552.6	0.0	19552.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	19832.8	0.0	19832.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	39385.3	0.0	39385.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.4	1.0
10°-20°	1366.8	3.5
20°-30°	2646.6	6.7
30°-40°	4476.5	11.4
40°-50°	7141.3	18.1
50°-60°	9774.9	24.8
60°-70°	9213.5	23.4
70°-80°	4058.8	10.3
80°-90°	305.4	0.8
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°	39385.3	100.0
0°-180°	39385.3	100.0

Coefficient of Utilization

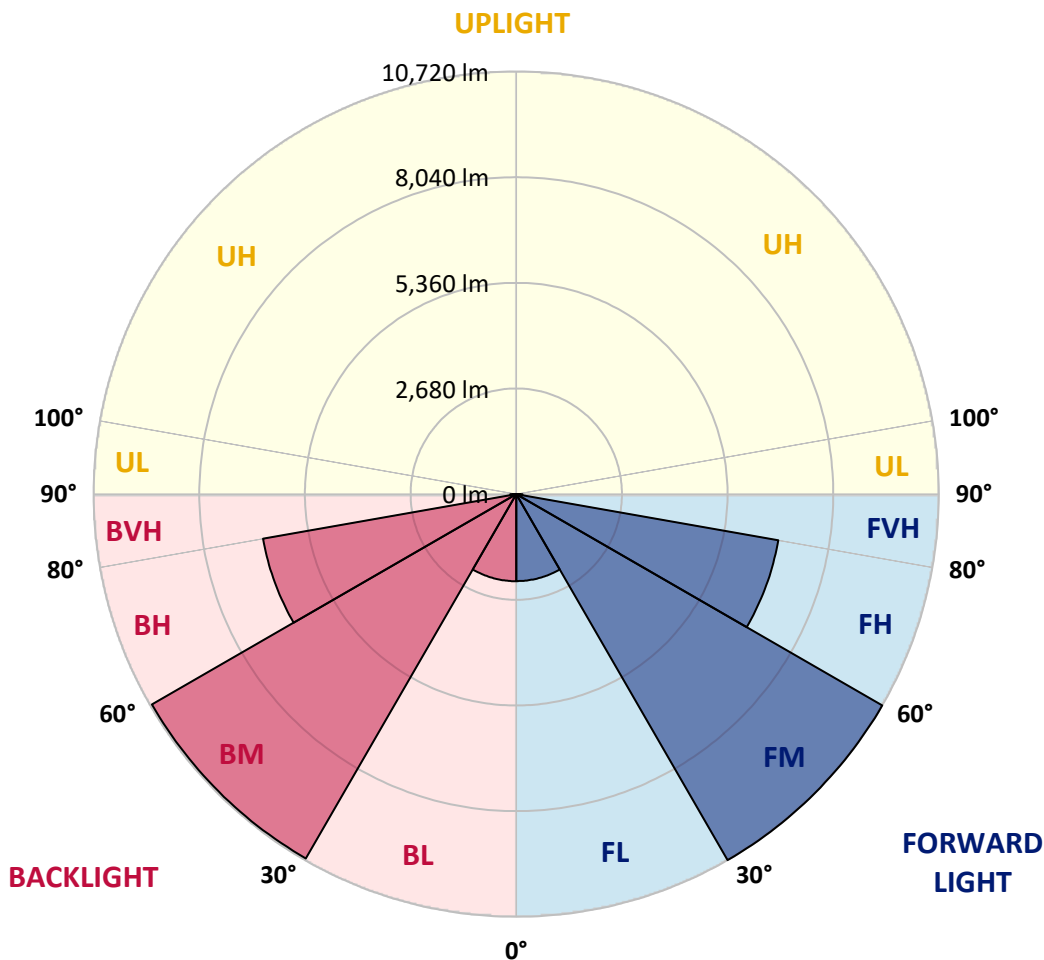


REPORT NUMBER: P481177
 CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2206.2	5.6			
FM	(30°-60°)	10720.3	27.2			
FH	(60°-80°)	6750.2	17.1			G3/7500
FVH	(80°-90°)	156.0	0.4			G2/225
BL	(0°-30°)	2208.6	5.6	B3/2500		
BM	(30°-60°)	10672.4	27.1	B5		
BH	(60°-80°)	6522.1	16.6	B5		G5
BVH	(80°-90°)	149.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





REPORT NUMBER: P481177

CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0
2.5°	4007.5	4007.5	4003.3	4024.5	4045.8	4054.2	4071.2	4075.5	4100.9	4079.7	4122.2
5°	3994.8	3990.6	4024.5	4075.5	4075.5	4130.7	4164.6	4211.3	4224.1	4249.5	4258.0
7.5°	4084.0	4075.5	4058.5	4113.7	4160.4	4245.3	4292.0	4372.6	4402.4	4436.3	4474.5
10°	4139.2	4139.2	4122.2	4219.8	4262.3	4376.9	4478.8	4559.4	4674.1	4712.3	4716.5
12.5°	4147.6	4160.4	4211.3	4338.7	4457.5	4606.1	4682.5	4835.4	4950.0	5022.2	5047.6
15°	4275.0	4249.5	4304.7	4478.8	4652.8	4784.4	4920.3	5030.7	5196.2	5289.6	5349.1
17.5°	4389.6	4364.2	4466.0	4674.1	4852.4	5056.1	5175.0	5293.9	5412.7	5497.6	5501.9
20°	4572.2	4593.4	4682.5	4907.5	5141.0	5319.3	5455.2	5476.4	5535.8	5659.0	5637.7
22.5°	4797.2	4780.2	4967.0	5213.2	5467.9	5616.5	5692.9	5637.7	5608.0	5739.6	5769.3
25°	5022.2	5073.1	5242.9	5472.2	5777.8	5977.4	5998.6	5845.8	5735.4	5782.1	5769.3
27.5°	5366.0	5374.5	5552.8	5824.5	6134.4	6308.5	6295.8	6079.2	5867.0	5871.2	5879.7
30°	5807.5	5765.1	5960.4	6206.6	6512.3	6669.3	6690.6	6380.7	6096.2	6011.3	6032.5
32.5°	6232.1	6283.0	6452.8	6733.0	6958.0	7047.2	7000.5	6724.5	6355.2	6240.6	6253.3
35°	6775.5	6767.0	7000.5	7238.2	7408.0	7425.0	7386.8	6983.5	6635.4	6486.8	6427.4
37.5°	7357.1	7433.5	7586.3	7781.6	7959.9	7968.4	7760.4	7437.7	7009.0	6762.7	6834.9
40°	8006.6	8091.5	8201.9	8486.3	8617.9	8482.1	8269.8	7832.5	7386.8	7170.3	7204.2
42.5°	8579.7	8617.9	8842.9	9178.3	9242.0	9182.5	8868.4	8337.7	7819.8	7582.1	7599.1
45°	9106.1	9157.1	9450.0	9751.4	9900.0	9798.1	9433.0	8927.8	8325.0	8121.2	8040.6
47.5°	9590.1	9692.0	9976.4	10286.3	10515.6	10524.1	10074.1	9462.7	8825.9	8558.5	8554.2
50°	9917.0	10065.6	10345.8	10698.1	11033.5	11165.1	10715.1	10057.1	9373.6	9089.2	9059.4
52.5°	10095.3	10248.1	10528.3	11075.9	11449.5	11653.3	11441.0	10613.2	10014.6	9717.5	9670.8
55°	9878.8	9980.7	10439.2	11207.5	11784.9	12120.3	11980.2	11381.6	10651.4	10409.4	10451.9
57.5°	8957.5	9169.8	9734.4	10693.9	11776.4	12600.0	12587.3	12107.5	11385.9	11156.6	11165.1
60°	7374.1	7552.4	8248.6	9590.1	11300.9	12795.3	13245.3	12812.3	12209.4	11942.0	11933.5
62.5°	5204.7	5429.7	6236.3	7700.9	9900.0	12523.6	14000.9	13699.5	13016.0	12820.8	12892.9
65°	2912.3	3048.1	3795.3	5119.8	7543.9	11029.2	14136.8	14620.8	13835.4	13538.2	13550.9
67.5°	1558.0	1609.0	1957.1	2687.3	4614.6	8503.3	12765.6	15151.4	14722.6	14209.0	14128.3
70°	1069.8	1086.8	1175.9	1375.5	2182.1	5085.8	9628.3	14204.7	15389.2	14688.7	14824.5
72.5°	904.2	895.8	917.0	938.2	1142.0	2275.5	5650.5	10931.6	14527.4	14264.2	14213.2
75°	785.4	781.1	789.6	768.4	793.9	1001.9	2500.5	6813.7	10634.4	11869.8	12060.9
77.5°	649.5	653.8	658.0	636.8	628.3	662.3	1006.1	2992.9	5234.4	5777.8	6232.1
80°	492.5	500.9	534.9	513.7	479.7	484.0	594.3	1001.9	1502.8	1362.7	1405.2
82.5°	335.4	339.6	411.8	386.3	360.8	326.9	382.1	517.9	585.8	445.8	390.6
85°	237.7	233.5	267.5	246.2	229.2	165.6	229.2	292.9	352.4	220.8	199.5
87.5°	55.2	55.2	110.4	89.2	84.9	67.9	89.2	114.6	152.8	97.6	89.2
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: P481177

CATALOG NUMBER: IFLD-S-SA6D-727-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0	4033.0
2.5°	4109.4	4071.2	4071.2	4062.7	4028.8	4020.3	3990.6	3999.1	3977.8	3956.6
5°	4253.8	4202.8	4202.8	4130.7	4062.7	4054.2	4020.3	4020.3	3986.3	3994.8
7.5°	4453.3	4406.6	4330.2	4266.5	4173.1	4134.9	4071.2	4062.7	4054.2	4037.3
10°	4691.0	4631.6	4555.2	4423.6	4347.2	4275.0	4211.3	4122.2	4100.9	4105.2
12.5°	5013.7	4920.3	4754.7	4640.1	4542.5	4449.1	4355.7	4224.1	4194.3	4207.1
15°	5242.9	5124.1	4958.5	4916.0	4784.4	4669.8	4517.0	4368.4	4317.5	4304.7
17.5°	5429.7	5332.1	5234.4	5170.8	5064.6	4924.5	4712.3	4542.5	4427.8	4415.1
20°	5582.5	5455.2	5434.0	5472.2	5340.6	5247.2	4988.2	4780.2	4627.4	4563.7
22.5°	5675.9	5595.3	5654.7	5688.7	5680.2	5523.1	5255.7	5013.7	4822.6	4763.2
25°	5777.8	5684.4	5896.7	6011.3	6041.0	5782.1	5574.1	5255.7	5068.9	5030.7
27.5°	5828.8	5862.7	6109.0	6350.9	6329.7	6130.2	5850.0	5565.6	5417.0	5349.1
30°	5977.4	6032.5	6406.1	6677.8	6682.1	6486.8	6274.5	5951.9	5786.3	5756.6
32.5°	6244.8	6312.7	6711.8	7000.5	7051.4	6902.8	6690.6	6491.0	6321.2	6253.3
35°	6448.6	6622.6	7072.6	7335.8	7471.7	7382.5	7263.7	7055.7	6877.4	6817.9
37.5°	6741.5	6983.5	7416.5	7773.1	7925.9	7917.5	7828.3	7603.3	7454.7	7403.8
40°	7161.8	7403.8	7798.6	8269.8	8554.2	8541.5	8490.6	8316.5	8095.8	8070.3
42.5°	7607.5	7807.1	8320.8	8859.9	9267.5	9225.0	9089.2	8885.4	8732.5	8698.6
45°	8040.6	8350.5	8825.9	9517.9	9823.6	9929.7	9768.4	9420.3	9246.2	9225.0
47.5°	8584.0	8830.2	9424.5	10044.3	10498.6	10515.6	10239.6	9917.0	9598.6	9666.5
50°	9067.9	9394.8	9997.6	10676.9	11220.3	11025.0	10672.6	10269.3	10040.1	9950.9
52.5°	9585.8	9984.9	10685.4	11377.4	11678.8	11483.5	10910.4	10460.4	10112.3	10074.1
55°	10341.5	10549.5	11466.5	11997.2	12094.8	11683.0	10838.2	10201.4	9751.4	9641.0
57.5°	11109.9	11351.9	12154.2	12612.7	12510.9	11572.6	10371.2	9386.3	8796.2	8639.2
60°	11886.8	12184.0	12859.0	13279.2	12752.8	10812.7	9050.9	7781.6	7093.9	6953.8
62.5°	12752.8	13139.2	13742.0	13890.6	12035.4	9309.9	7183.0	5616.5	4920.3	4686.8
65°	13521.2	13916.0	14659.0	13763.2	10511.3	6945.3	4644.3	3209.4	2695.8	2509.0
67.5°	14153.8	14599.5	14964.6	12179.7	7696.7	4067.0	2419.8	1689.6	1498.6	1430.7
70°	14654.7	15397.6	13691.0	8953.3	4398.1	1982.5	1307.5	1112.3	1086.8	1069.8
72.5°	14217.5	14119.8	10222.6	5166.5	1927.4	1091.0	946.7	917.0	912.7	917.0
75°	11627.8	10371.2	6113.2	2245.8	967.9	789.6	785.4	772.6	793.9	793.9
77.5°	5642.0	4933.0	2555.7	963.7	636.8	619.8	641.0	641.0	641.0	641.0
80°	1307.5	1447.6	912.7	585.8	462.7	462.7	509.4	513.7	492.5	484.0
82.5°	445.8	594.3	500.9	369.3	305.7	343.9	386.3	394.8	326.9	331.1
85°	220.8	348.1	271.7	212.3	157.1	212.3	250.5	263.2	225.0	216.5
87.5°	101.9	152.8	101.9	72.2	55.2	76.4	72.2	59.4	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)