

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: P478913

Luminaire Tested: **IFLD-S-SA6B-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478913
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

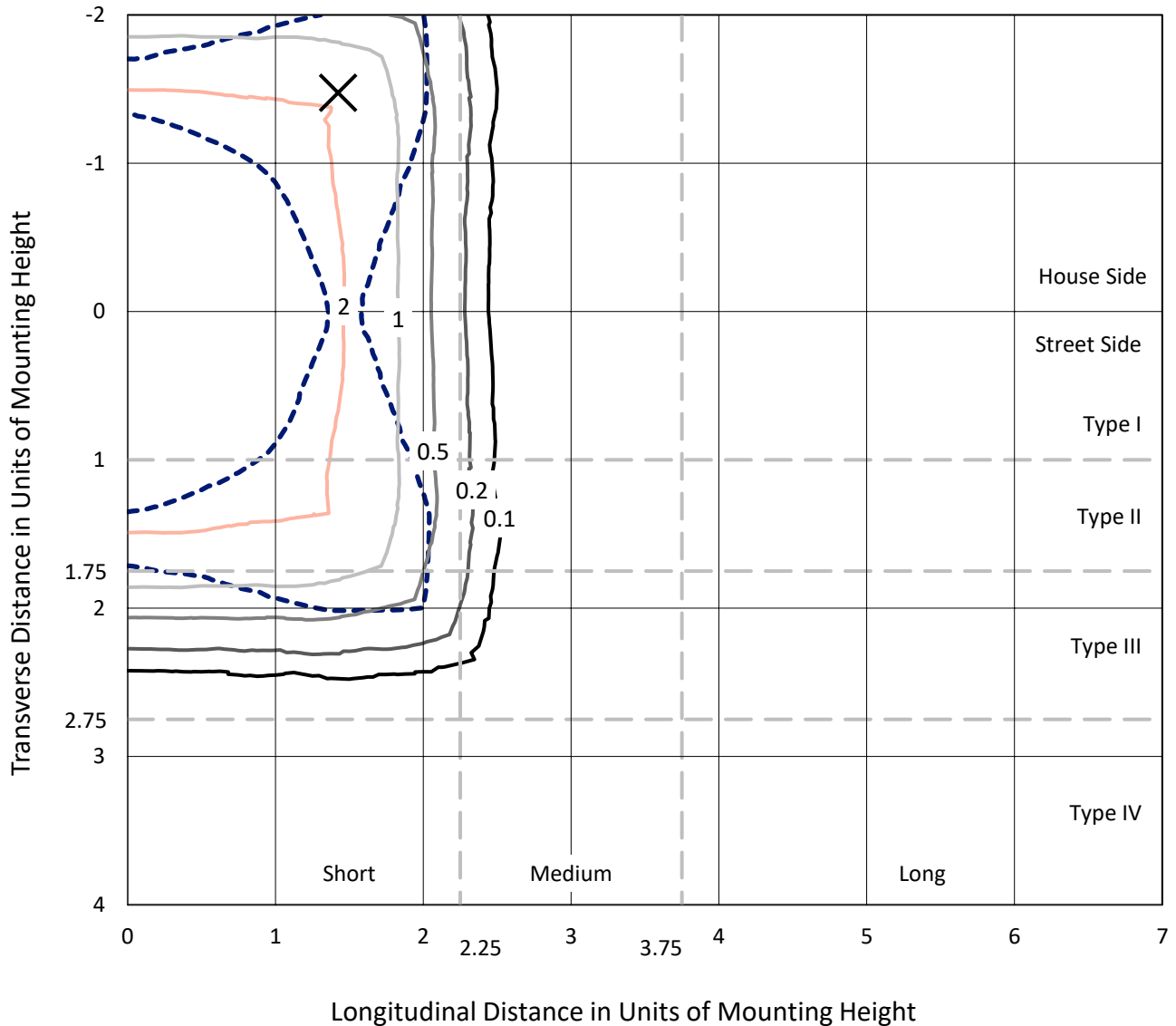
Lumens per Lamp: N/A
Luminaire Lumens: 32835.9 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 244.9
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

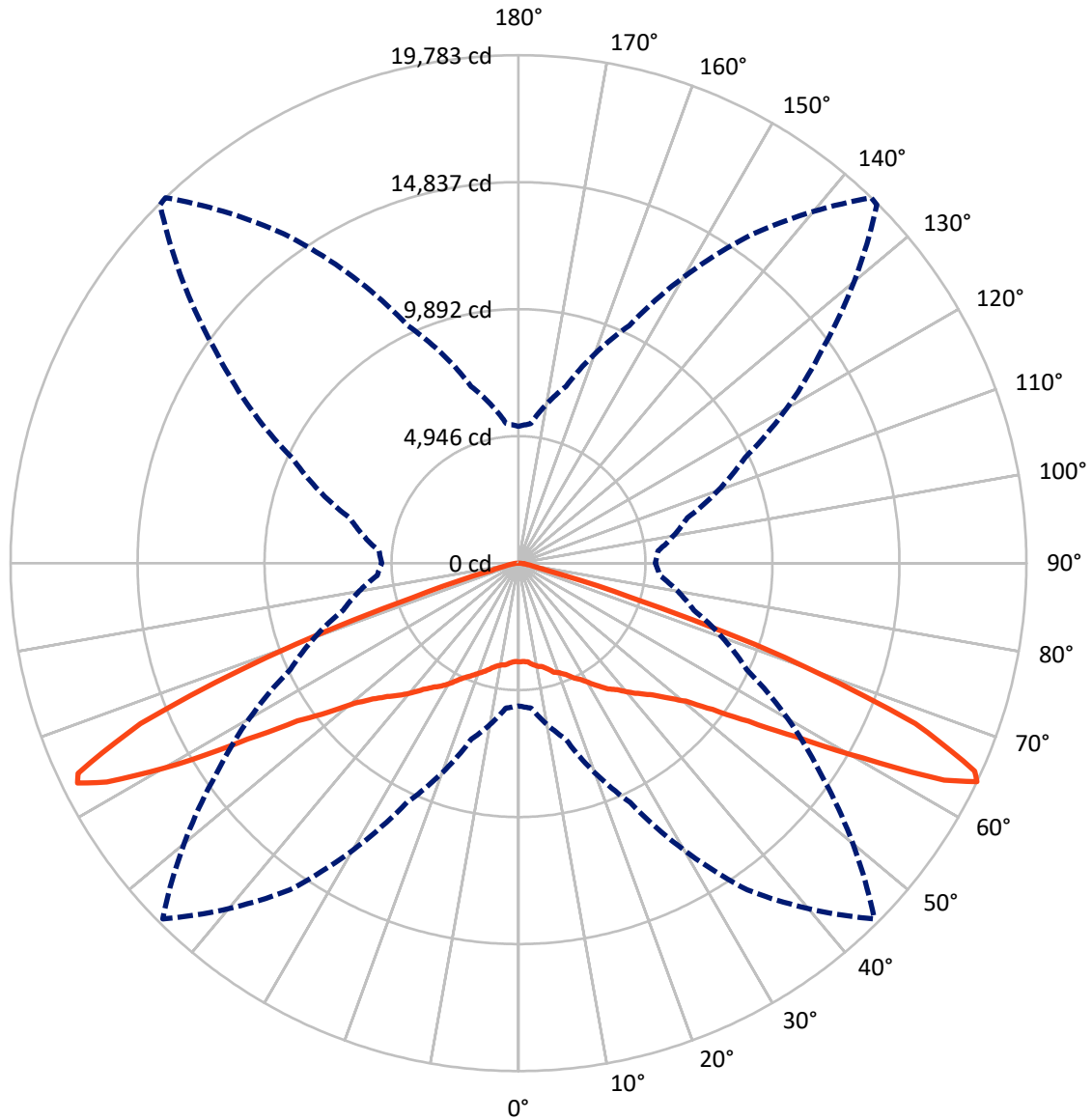
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16433.6	0.0	16433.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16402.3	0.0	16402.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	32835.9	0.0	32835.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	1.2
10°-20°	1217.5	3.7
20°-30°	2288.1	7.0
30°-40°	3773.5	11.5
40°-50°	5901.5	18.0
50°-60°	9535.4	29.0
60°-70°	8586.0	26.1
70°-80°	1017.0	3.1
80°-90°	139.2	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°	32835.9	100.0
0°-180°	32835.9	100.0

Coefficient of Utilization



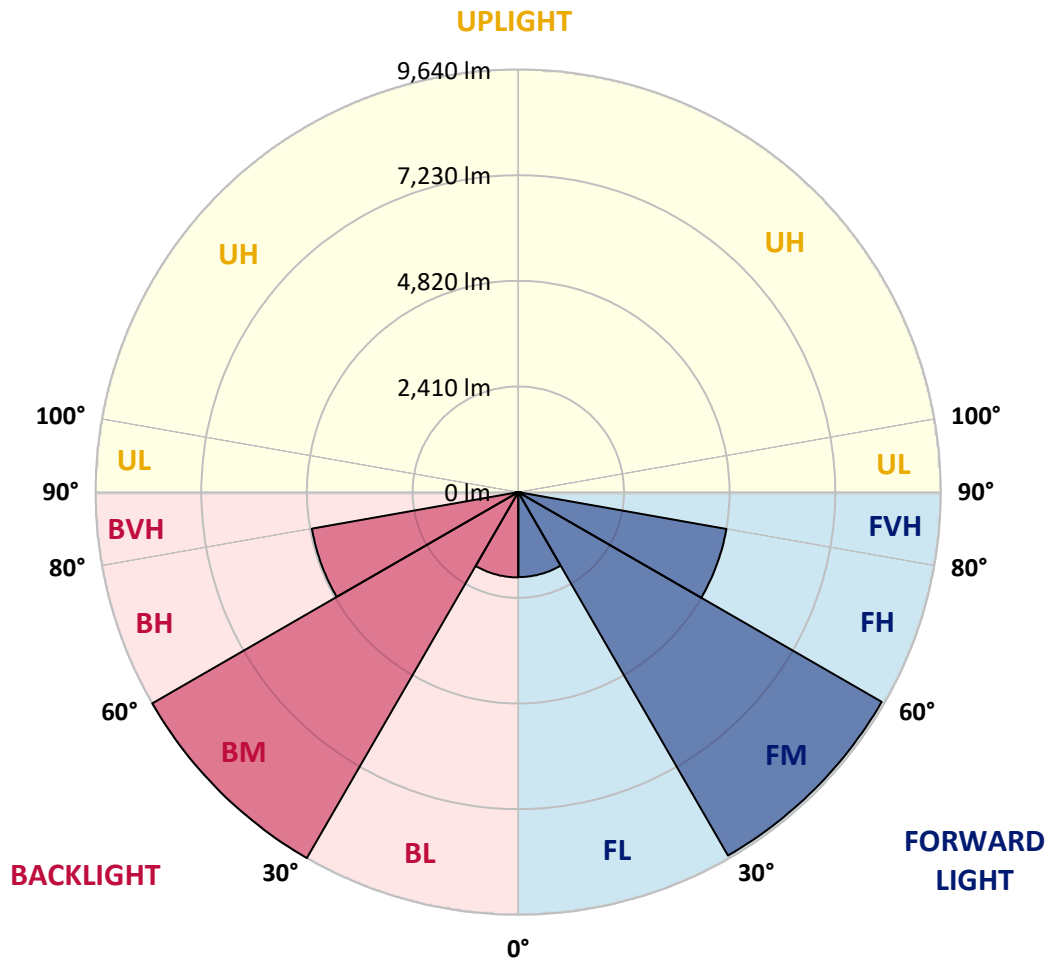
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.9	5.9			
FM (30°-60°)	9570.6	29.1			
FH (60°-80°)	4822.3	14.7			G2/5000
FVH (80°-90°)	71.4	0.2			G1/100
BL (0°-30°)	1945.4	5.9	B3/2500		
BM (30°-60°)	9639.7	29.4	B5		
BH (60°-80°)	4780.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	67.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4
2.5°	3799.2	3806.8	3874.5	3848.2	3870.8	3829.3	3859.5	3923.5	3848.2	3904.7	3923.5
5°	3840.6	3851.9	3851.9	3878.3	3893.4	3885.8	3904.7	3878.3	3949.8	3919.7	3964.9
7.5°	3991.3	3972.4	3942.3	3964.9	3968.7	3987.5	4006.3	4040.2	4028.9	4002.6	4047.7
10°	4017.6	4002.6	4047.7	4051.5	4032.7	4017.6	4036.4	4036.4	4070.3	4077.9	4077.9
12.5°	4062.8	4077.9	4074.1	4104.2	4108.0	4096.7	4126.8	4183.3	4168.2	4179.5	4153.2
15°	4236.0	4217.2	4213.4	4243.5	4292.5	4220.9	4273.7	4269.9	4254.8	4277.4	4217.2
17.5°	4386.6	4326.4	4352.7	4401.7	4382.9	4397.9	4465.7	4405.4	4420.5	4394.1	4375.3
20°	4518.4	4469.5	4473.2	4492.0	4492.0	4537.2	4563.6	4541.0	4525.9	4522.2	4529.7
22.5°	4665.3	4608.8	4612.5	4691.6	4718.0	4702.9	4684.1	4721.7	4729.3	4699.1	4733.0
25°	4774.4	4834.7	4853.5	4891.2	4834.7	4876.1	4861.0	4932.6	4977.8	4917.5	4958.9
27.5°	5060.6	5034.3	5083.2	5079.4	5124.6	5083.2	5109.6	5132.2	5151.0	5154.7	5135.9
30°	5316.7	5328.0	5279.0	5410.8	5305.4	5373.1	5418.3	5429.6	5452.2	5452.2	5395.7
32.5°	5587.8	5565.2	5644.2	5614.1	5595.3	5648.0	5599.1	5753.4	5663.1	5715.8	5651.8
35°	5892.8	5892.8	5922.9	6005.7	5892.8	5858.9	5949.2	6013.2	6013.2	5919.1	5941.7
37.5°	6235.4	6205.3	6242.9	6348.4	6261.8	6148.8	6314.5	6340.8	6322.0	6295.6	6250.5
40°	6476.4	6468.8	6544.2	6683.5	6559.2	6536.6	6566.7	6638.3	6660.9	6687.2	6627.0
42.5°	6883.0	6916.9	7135.3	7101.4	6999.8	6920.7	6913.2	7180.5	7116.5	7048.7	7014.8
45°	7485.5	7455.4	7568.3	7572.1	7440.3	7267.1	7304.8	7549.5	7658.7	7508.1	7564.6
47.5°	7963.7	7978.7	8057.8	8219.7	7914.7	7734.0	7873.3	8268.7	8234.8	8178.3	8231.0
50°	8603.8	8671.6	8920.1	8863.6	8592.5	8370.3	8675.3	9048.1	9089.5	8882.4	8844.8
52.5°	9488.6	9594.1	9729.6	9774.8	9515.0	9435.9	9454.8	9917.9	9816.2	9616.7	9488.6
55°	10264.3	10313.3	10561.8	10934.5	10915.7	10535.4	10753.8	10927.0	10512.8	10102.4	10136.3
57.5°	10595.7	10618.2	11311.1	12056.6	12500.9	12587.5	12339.0	11755.4	10768.9	9978.1	9929.2
60°	9771.0	9985.7	10821.6	12504.7	14534.2	15535.8	13882.8	11849.5	10170.2	9210.0	9138.5
62.5°	7809.3	7820.6	9063.2	11616.1	15799.4	18423.8	14474.0	10964.7	8573.7	7485.5	7199.3
64°	5561.4	5666.8	7093.9	10283.1	15535.8	19598.6	14402.4	9808.7	7067.5	5523.7	5324.2
65°	3991.3	4138.1	5516.2	8927.6	14918.3	19459.3	14187.8	8814.7	5715.8	4217.2	4013.8
67.5°	1468.5	1528.7	2165.1	4465.7	10712.4	16582.5	11243.3	4846.0	2511.5	1788.5	1607.8
70°	681.5	685.3	802.0	1476.0	4684.1	11088.9	5365.6	1818.7	945.1	749.3	696.6
72.5°	500.8	512.1	561.0	681.5	1378.1	4695.4	1762.2	745.5	553.5	489.5	478.2
75°	406.7	414.2	429.2	493.3	636.3	1257.6	715.4	515.9	440.5	395.4	380.3
77.5°	312.5	312.5	346.4	376.5	421.7	587.4	474.4	410.4	357.7	312.5	301.2
80°	225.9	229.7	271.1	293.7	286.2	387.8	342.6	338.9	293.7	244.7	225.9
82.5°	131.8	143.1	195.8	210.9	203.3	229.7	248.5	263.6	229.7	169.4	154.4
85°	75.3	79.1	113.0	116.7	116.7	109.2	143.1	158.1	154.4	105.4	94.1
87.5°	22.6	22.6	30.1	30.1	33.9	37.7	56.5	67.8	75.3	52.7	48.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4	3844.4
2.5°	3904.7	3848.2	3851.9	3867.0	3818.1	3836.9	3893.4	3851.9	3840.6	3818.1	3806.8
5°	3885.8	3946.1	3923.5	3931.0	3919.7	3867.0	3859.5	3893.4	3912.2	3878.3	3946.1
7.5°	4017.6	3991.3	3961.1	3972.4	3946.1	3991.3	4021.4	3953.6	3987.5	3968.7	3931.0
10°	4092.9	4044.0	4066.6	4059.0	4040.2	4085.4	4055.3	4047.7	4017.6	3976.2	4036.4
12.5°	4119.3	4175.8	4213.4	4149.4	4160.7	4138.1	4119.3	4119.3	4085.4	4074.1	4085.4
15°	4236.0	4285.0	4269.9	4318.8	4254.8	4277.4	4300.0	4243.5	4273.7	4190.8	4254.8
17.5°	4450.6	4409.2	4461.9	4397.9	4420.5	4465.7	4394.1	4394.1	4416.7	4371.6	4315.1
20°	4586.2	4567.4	4548.5	4552.3	4514.6	4556.1	4533.5	4522.2	4488.3	4503.3	4533.5
22.5°	4714.2	4687.8	4695.4	4706.7	4733.0	4714.2	4702.9	4714.2	4631.4	4706.7	4601.2
25°	4872.3	4943.9	4921.3	4970.2	4894.9	4943.9	4940.1	4868.6	4913.8	4883.6	4861.0
27.5°	5135.9	5098.3	5132.2	5071.9	5124.6	5128.4	5083.2	5203.7	5151.0	5143.4	5128.4
30°	5474.8	5448.4	5425.9	5392.0	5433.4	5399.5	5437.1	5448.4	5399.5	5361.8	5290.3
32.5°	5666.8	5738.4	5764.7	5681.9	5685.7	5704.5	5670.6	5636.7	5666.8	5678.1	5666.8
35°	5937.9	6005.7	6020.8	5956.8	5922.9	6017.0	5949.2	6062.2	5964.3	5968.1	5866.4
37.5°	6254.2	6273.1	6401.1	6329.5	6299.4	6254.2	6378.5	6363.4	6386.0	6205.3	6295.6
40°	6611.9	6679.7	6751.2	6570.5	6566.7	6608.2	6600.6	6687.2	6645.8	6619.5	6555.5
42.5°	7003.5	7146.6	7157.9	7037.4	6962.1	6954.6	6992.2	7184.3	7188.0	7014.8	6939.5
45°	7523.1	7681.3	7639.9	7406.4	7323.6	7312.3	7496.8	7579.6	7651.2	7583.4	7519.4
47.5°	8170.8	8276.2	8246.1	8031.5	7764.1	7839.4	8020.2	8280.0	8204.7	8114.3	8039.0
50°	8863.6	8987.9	8923.8	8709.2	8453.2	8453.2	8675.3	9006.7	8984.1	8807.1	8739.3
52.5°	9631.7	9812.5	9959.3	9654.3	9439.7	9473.6	9823.8	9944.3	9887.8	9763.5	9707.0
55°	10204.1	10550.5	10851.7	10866.8	10878.1	10874.3	10964.7	11085.2	10682.3	10482.7	10279.4
57.5°	10064.7	10719.9	11751.6	12452.0	12659.1	12768.3	12738.1	12180.9	11228.2	10573.1	10640.8
60°	9070.7	10140.1	11804.3	14052.2	15558.4	15407.8	14858.0	12655.3	10927.0	9820.0	9680.7
62.5°	7237.0	8524.7	10919.5	14504.1	18653.5	18608.3	15731.6	11559.6	9104.6	7703.9	7617.3
64°	5452.2	6807.7	9740.9	14387.4	19737.9	19783.1	15509.4	10211.6	7124.0	5452.2	5320.4
65°	4172.0	5429.6	8585.0	14146.4	19504.4	19530.8	14891.9	8818.4	5414.6	3870.8	3727.7
67.5°	1660.5	2311.9	4657.7	10727.4	16748.2	16676.7	10625.8	4266.1	2070.9	1348.0	1321.6
70°	707.9	881.1	1634.2	5083.2	11213.2	11006.1	4574.9	1385.6	768.1	643.9	640.1
72.5°	485.7	538.4	700.4	1570.1	4661.5	4552.3	1302.8	643.9	523.4	482.0	482.0
75°	391.6	429.2	508.3	658.9	1235.0	1189.8	613.7	474.4	418.0	387.8	384.1
77.5°	305.0	342.6	399.1	455.6	564.8	561.0	410.4	357.7	323.8	301.2	293.7
80°	241.0	278.6	316.3	323.8	369.0	361.5	278.6	282.4	263.6	218.4	214.6
82.5°	165.7	225.9	252.3	229.7	218.4	218.4	199.6	199.6	184.5	135.6	124.3
85°	101.7	150.6	158.1	135.6	101.7	101.7	109.2	105.4	97.9	71.5	67.8
87.5°	52.7	71.5	64.0	52.7	33.9	33.9	30.1	22.6	22.6	18.8	18.8
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)