

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: P479109

Luminaire Tested: **IFLD-S-SA6C-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479109
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

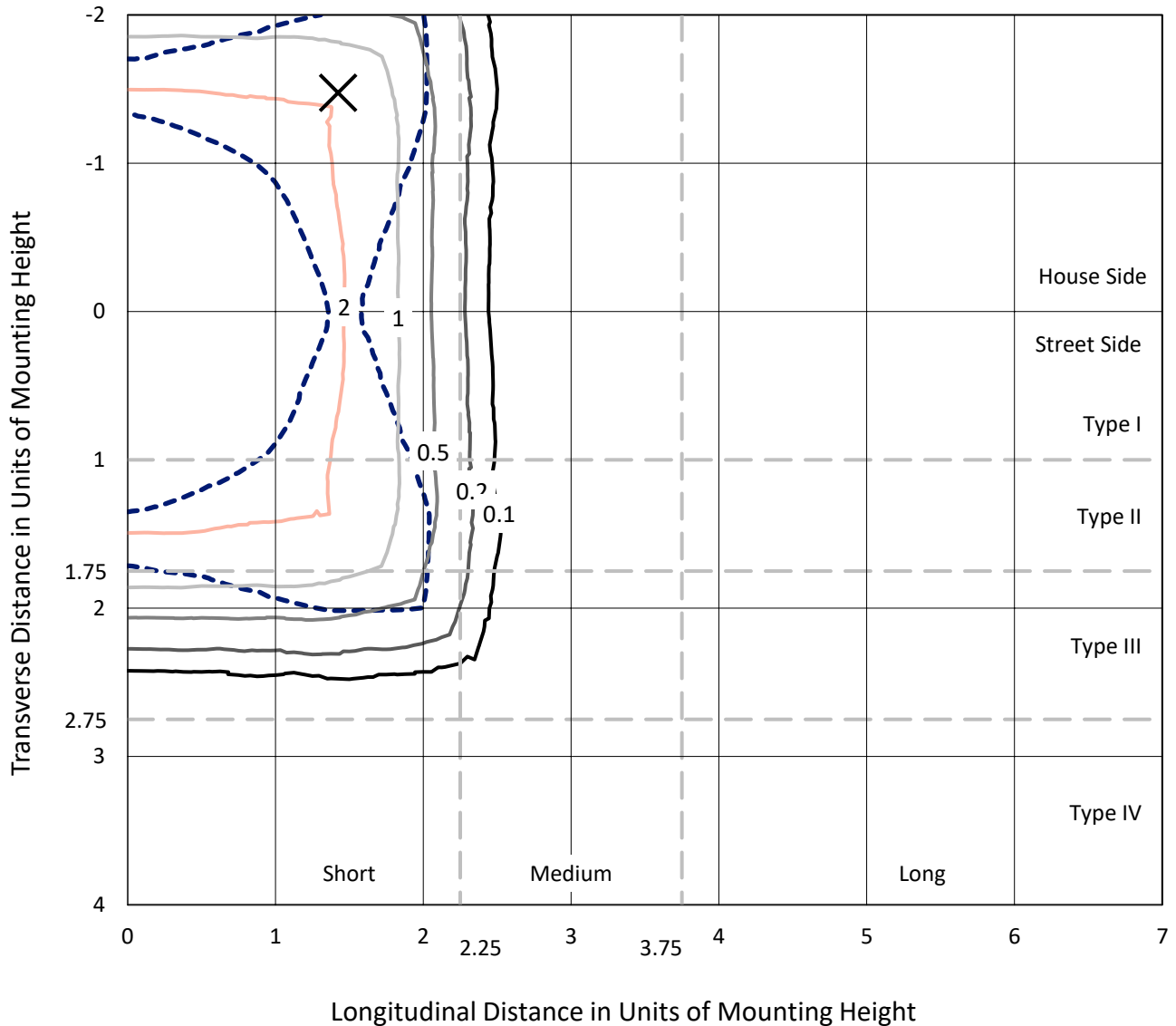
Lumens per Lamp: N/A
Luminaire Lumens: 32930.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5
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

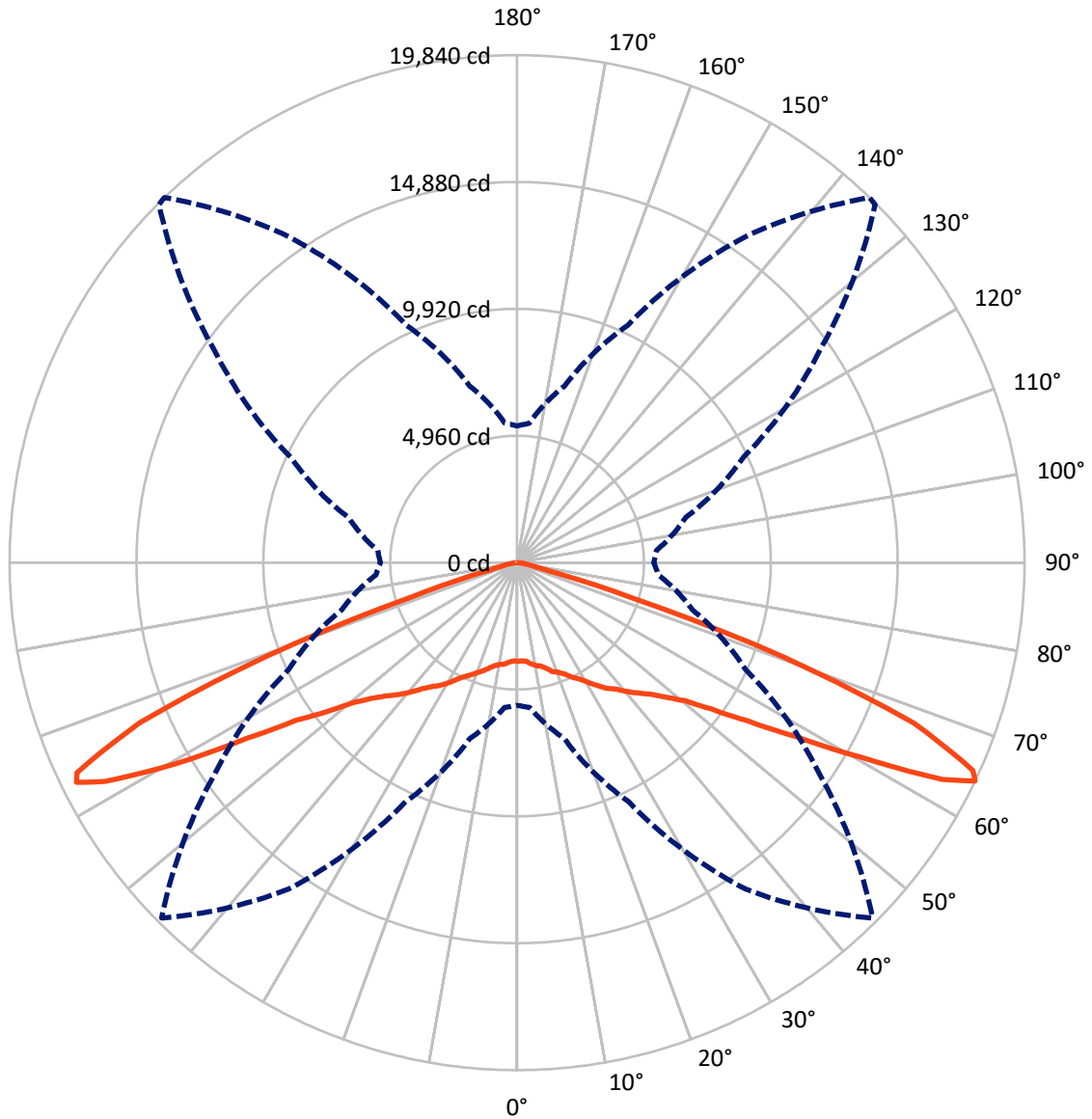
✕ Max cd
 - - - 1/2 Max cd



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	16480.9	0.0	16480.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16449.5	0.0	16449.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32930.3	0.0	32930.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	1.2
10°-20°	1221.0	3.7
20°-30°	2294.7	7.0
30°-40°	3784.3	11.5
40°-50°	5918.5	18.0
50°-60°	9562.8	29.0
60°-70°	8610.7	26.1
70°-80°	1020.0	3.1
80°-90°	139.6	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°	32930.3	100.0
0°-180°	32930.3	100.0

Coefficient of Utilization



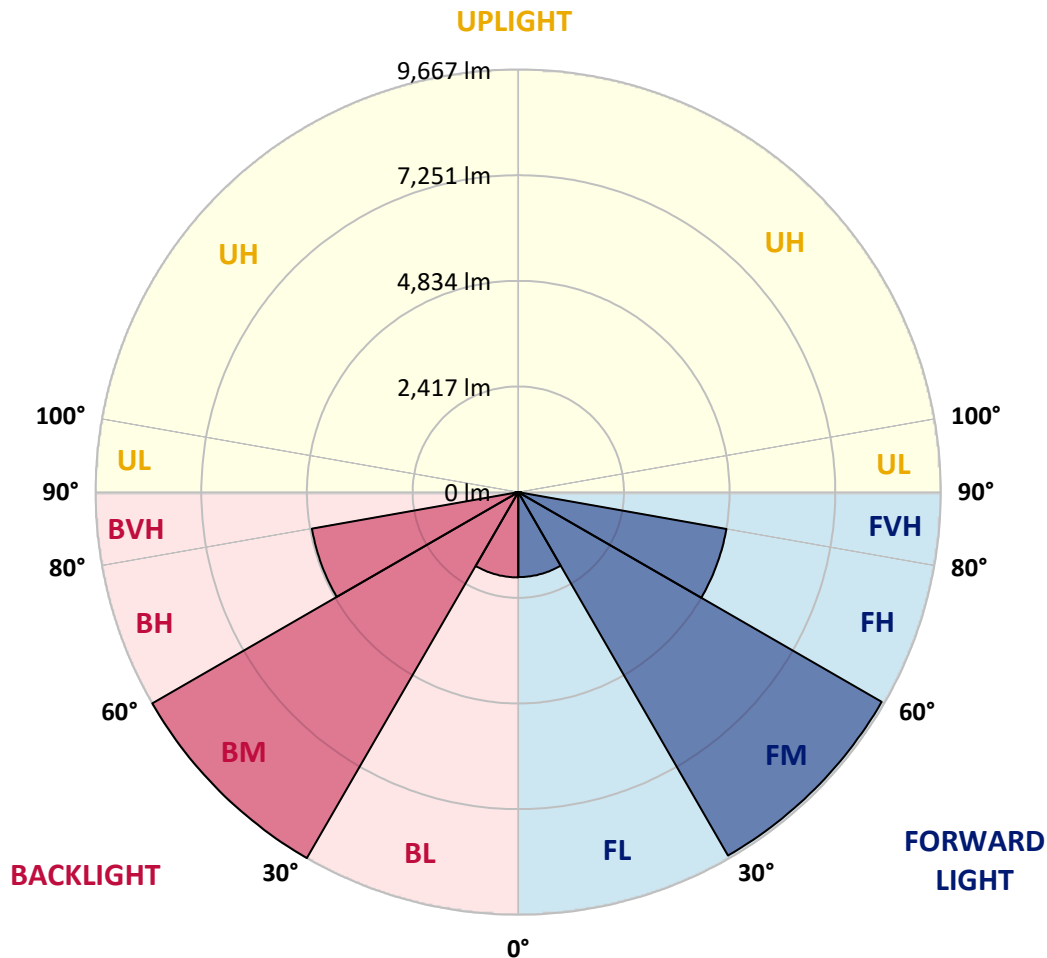
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.5	5.9			
FM (30°-60°)	9598.2	29.1			
FH (60°-80°)	4836.2	14.7			G2/5000
FVH (80°-90°)	71.6	0.2			G1/100
BL (0°-30°)	1951.0	5.9	B3/2500		
BM (30°-60°)	9667.4	29.4	B5		
BH (60°-80°)	4794.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	68.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5
2.5°	3810.2	3817.7	3885.7	3859.2	3881.9	3840.4	3870.6	3934.8	3859.2	3915.9	3934.8
5°	3851.7	3863.0	3863.0	3889.5	3904.6	3897.0	3915.9	3889.5	3961.2	3931.0	3976.3
7.5°	4002.7	3983.9	3953.6	3976.3	3980.1	3999.0	4017.8	4051.8	4040.5	4014.1	4059.4
10°	4029.2	4014.1	4059.4	4063.2	4044.3	4029.2	4048.1	4048.1	4082.0	4089.6	4089.6
12.5°	4074.5	4089.6	4085.8	4116.0	4119.8	4108.5	4138.7	4195.3	4180.2	4191.5	4165.1
15°	4248.2	4229.3	4225.5	4255.7	4304.8	4233.1	4286.0	4282.2	4267.1	4289.7	4229.3
17.5°	4399.2	4338.8	4365.2	4414.3	4395.5	4410.6	4478.5	4418.1	4433.2	4406.8	4387.9
20°	4531.4	4482.3	4486.1	4505.0	4505.0	4550.3	4576.7	4554.1	4539.0	4535.2	4542.7
22.5°	4678.7	4622.0	4625.8	4705.1	4731.5	4716.4	4697.6	4735.3	4742.9	4712.7	4746.6
25°	4788.2	4848.6	4867.5	4905.2	4848.6	4890.1	4875.0	4946.8	4992.1	4931.7	4973.2
27.5°	5075.2	5048.7	5097.8	5094.1	5139.4	5097.8	5124.3	5146.9	5165.8	5169.6	5150.7
30°	5331.9	5343.3	5294.2	5426.4	5320.6	5388.6	5433.9	5445.2	5467.9	5467.9	5411.2
32.5°	5603.8	5581.2	5660.5	5630.3	5611.4	5664.3	5615.2	5770.0	5679.4	5732.2	5668.0
35°	5909.7	5909.7	5939.9	6023.0	5909.7	5875.7	5966.3	6030.5	6030.5	5936.1	5958.8
37.5°	6253.3	6223.1	6260.9	6366.6	6279.8	6166.5	6332.6	6359.1	6340.2	6313.8	6268.4
40°	6495.0	6487.5	6563.0	6702.7	6578.1	6555.4	6585.6	6657.4	6680.0	6706.5	6646.1
42.5°	6902.8	6936.8	7155.8	7121.9	7019.9	6940.6	6933.0	7201.2	7137.0	7069.0	7035.0
45°	7507.0	7476.8	7590.1	7593.9	7461.7	7288.0	7325.8	7571.2	7680.7	7529.7	7586.3
47.5°	7986.6	8001.7	8081.0	8243.4	7937.5	7756.2	7896.0	8292.5	8258.5	8201.8	8254.7
50°	8628.5	8696.5	8945.7	8889.1	8617.2	8394.4	8700.3	9074.1	9115.7	8908.0	8870.2
52.5°	9515.9	9621.7	9757.6	9802.9	9542.4	9463.1	9482.0	9946.4	9844.5	9644.3	9515.9
55°	10293.8	10342.9	10592.2	10966.0	10947.1	10565.7	10784.7	10958.4	10543.1	10131.5	10165.4
57.5°	10626.1	10648.8	11343.6	12091.3	12536.9	12623.7	12374.5	11789.2	10799.8	10006.8	9957.8
60°	9799.2	10014.4	10852.7	12540.7	14576.0	15580.5	13922.7	11883.6	10199.4	9236.5	9164.8
62.5°	7831.8	7843.1	9089.2	11649.5	15844.8	18476.8	14515.6	10996.2	8598.3	7507.0	7220.0
64°	5577.4	5683.1	7114.3	10312.7	15580.5	19655.0	14443.8	9836.9	7087.9	5539.6	5339.5
65°	4002.7	4150.0	5532.1	8953.3	14961.2	19515.2	14228.6	8840.0	5732.2	4229.3	4025.4
67.5°	1472.7	1533.1	2171.3	4478.5	10743.2	16630.2	11275.6	4859.9	2518.7	1793.7	1612.4
70°	683.5	687.3	804.3	1480.3	4697.6	11120.8	5381.0	1823.9	947.8	751.5	698.6
72.5°	502.2	513.6	562.6	683.5	1382.1	4708.9	1767.2	747.7	555.1	490.9	479.6
75°	407.8	415.4	430.5	494.7	638.2	1261.2	717.5	517.3	441.8	396.5	381.4
77.5°	313.4	313.4	347.4	377.6	422.9	589.1	475.8	411.6	358.7	313.4	302.1
80°	226.6	230.3	271.9	294.5	287.0	388.9	343.6	339.9	294.5	245.5	226.6
82.5°	132.2	143.5	196.4	211.5	203.9	230.3	249.2	264.3	230.3	169.9	154.8
85°	75.5	79.3	113.3	117.1	117.1	109.5	143.5	158.6	154.8	105.7	94.4
87.5°	22.7	22.7	30.2	30.2	34.0	37.8	56.6	68.0	75.5	52.9	49.1
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°	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5	3855.5
2.5°	3915.9	3859.2	3863.0	3878.1	3829.0	3847.9	3904.6	3863.0	3851.7	3829.0	3817.7
5°	3897.0	3957.4	3934.8	3942.3	3931.0	3878.1	3870.6	3904.6	3923.4	3889.5	3957.4
7.5°	4029.2	4002.7	3972.5	3983.9	3957.4	4002.7	4032.9	3965.0	3999.0	3980.1	3942.3
10°	4104.7	4055.6	4078.3	4070.7	4051.8	4097.1	4066.9	4059.4	4029.2	3987.6	4048.1
12.5°	4131.1	4187.8	4225.5	4161.3	4172.7	4150.0	4131.1	4131.1	4097.1	4085.8	4097.1
15°	4248.2	4297.3	4282.2	4331.3	4267.1	4289.7	4312.4	4255.7	4286.0	4202.9	4267.1
17.5°	4463.4	4421.9	4474.8	4410.6	4433.2	4478.5	4406.8	4406.8	4429.4	4384.1	4327.5
20°	4599.4	4580.5	4561.6	4565.4	4527.6	4569.2	4546.5	4535.2	4501.2	4516.3	4546.5
22.5°	4727.8	4701.3	4708.9	4720.2	4746.6	4727.8	4716.4	4727.8	4644.7	4720.2	4614.5
25°	4886.4	4958.1	4935.5	4984.5	4909.0	4958.1	4954.3	4882.6	4927.9	4897.7	4875.0
27.5°	5150.7	5112.9	5146.9	5086.5	5139.4	5143.1	5097.8	5218.7	5165.8	5158.2	5143.1
30°	5490.5	5464.1	5441.5	5407.5	5449.0	5415.0	5452.8	5464.1	5415.0	5377.3	5305.5
32.5°	5683.1	5754.9	5781.3	5698.2	5702.0	5720.9	5686.9	5652.9	5683.1	5694.5	5683.1
35°	5955.0	6023.0	6038.1	5973.9	5939.9	6034.3	5966.3	6079.6	5981.4	5985.2	5883.3
37.5°	6272.2	6291.1	6419.5	6347.7	6317.5	6272.2	6396.8	6381.7	6404.4	6223.1	6313.8
40°	6631.0	6698.9	6770.7	6589.4	6585.6	6627.2	6619.6	6706.5	6664.9	6638.5	6574.3
42.5°	7023.7	7167.2	7178.5	7057.7	6982.1	6974.6	7012.3	7204.9	7208.7	7035.0	6959.5
45°	7544.8	7703.4	7661.8	7427.7	7344.6	7333.3	7518.3	7601.4	7673.2	7605.2	7541.0
47.5°	8194.3	8300.0	8269.8	8054.6	7786.5	7862.0	8043.2	8303.8	8228.3	8137.6	8062.1
50°	8889.1	9013.7	8949.5	8734.3	8477.5	8477.5	8700.3	9032.6	9009.9	8832.5	8764.5
52.5°	9659.4	9840.7	9988.0	9682.1	9466.9	9500.8	9852.0	9972.9	9916.2	9791.6	9735.0
55°	10233.4	10580.8	10882.9	10898.0	10909.3	10905.6	10996.2	11117.0	10713.0	10512.9	10308.9
57.5°	10093.7	10750.7	11785.4	12487.8	12695.5	12805.0	12774.8	12215.9	11260.5	10603.5	10671.5
60°	9096.8	10169.2	11838.3	14092.7	15603.1	15452.1	14900.8	12691.7	10958.4	9848.2	9708.5
62.5°	7257.8	8549.2	10950.9	14545.8	18707.1	18661.8	15776.8	11592.8	9130.8	7726.0	7639.2
64°	5467.9	6827.3	9768.9	14428.7	19794.7	19840.0	15554.0	10241.0	7144.5	5467.9	5335.7
65°	4184.0	5445.2	8609.7	14187.1	19560.5	19587.0	14934.7	8843.8	5430.1	3881.9	3738.4
67.5°	1665.3	2318.6	4671.1	10758.3	16796.4	16724.6	10656.3	4278.4	2076.9	1351.9	1325.4
70°	709.9	883.6	1638.9	5097.8	11245.4	11037.7	4588.0	1389.6	770.3	645.7	641.9
72.5°	487.1	540.0	702.4	1574.7	4674.9	4565.4	1306.6	645.7	524.9	483.3	483.3
75°	392.7	430.5	509.8	660.8	1238.6	1193.3	615.5	475.8	419.2	388.9	385.2
77.5°	305.9	343.6	400.3	456.9	566.4	562.6	411.6	358.7	324.8	302.1	294.5
80°	241.7	279.4	317.2	324.8	370.1	362.5	279.4	283.2	264.3	219.0	215.2
82.5°	166.2	226.6	253.0	230.3	219.0	219.0	200.1	200.1	185.0	135.9	124.6
85°	102.0	151.0	158.6	135.9	102.0	102.0	109.5	105.7	98.2	71.7	68.0
87.5°	52.9	71.7	64.2	52.9	34.0	34.0	30.2	22.7	22.7	18.9	18.9
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)