

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: P479081

Luminaire Tested: **IFLD-L-SA7D-827-U-5NQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

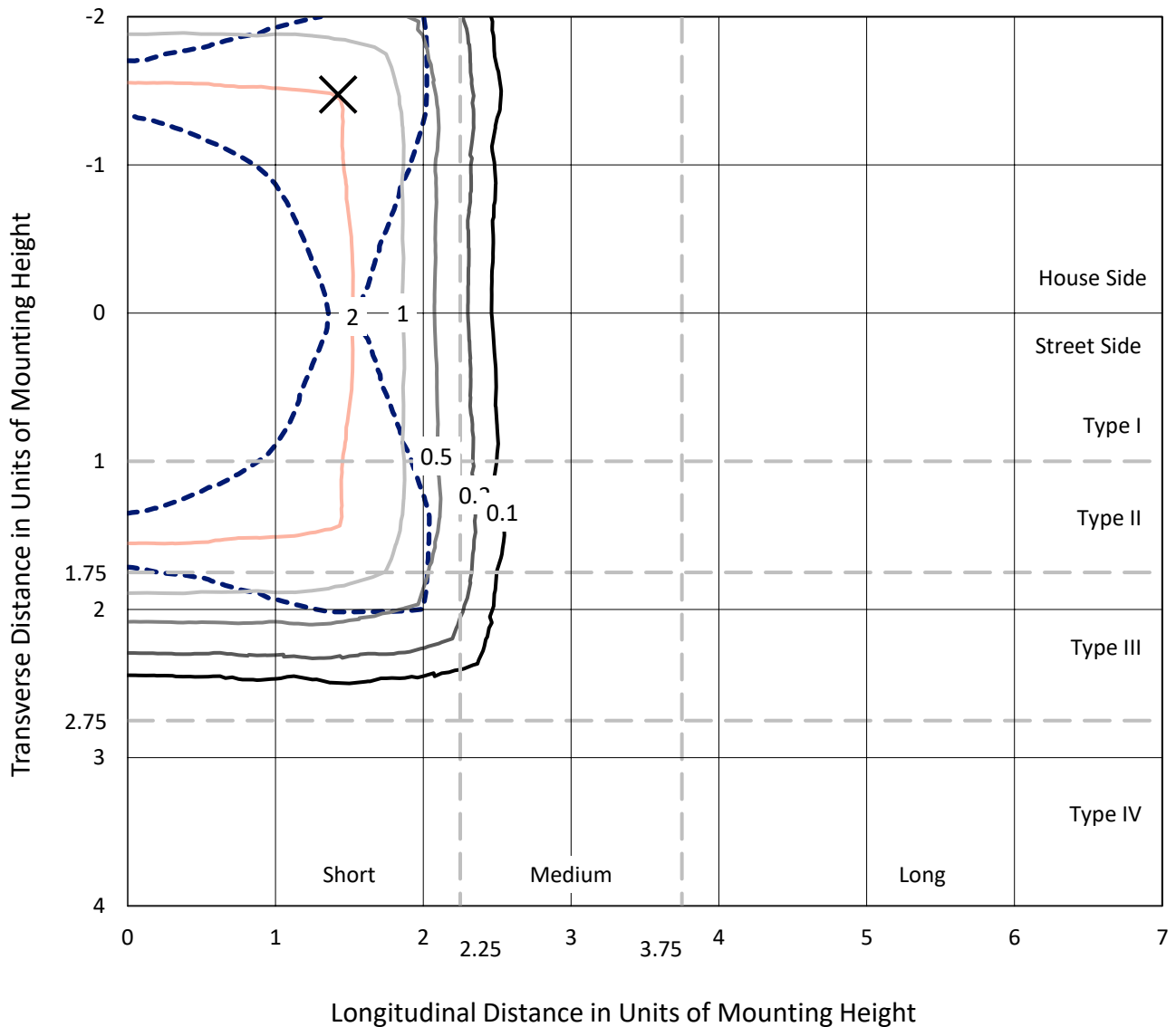
Lumens per Lamp: N/A
Luminaire Lumens: 35763.3 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6
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

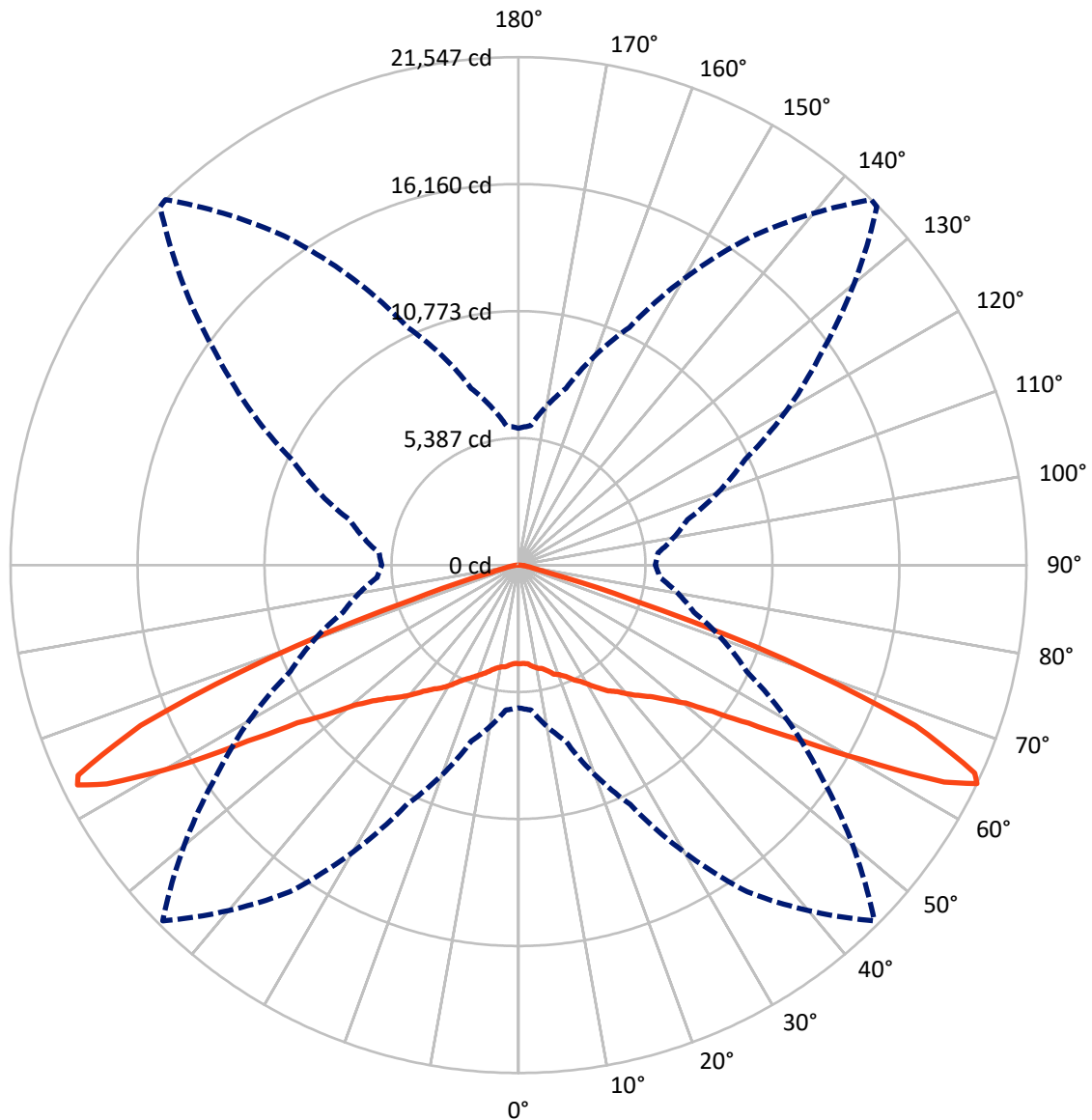
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	17898.7	0.0	17898.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17864.6	0.0	17864.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	35763.3	0.0	35763.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.4	1.2
10°-20°	1326.0	3.7
20°-30°	2492.1	7.0
30°-40°	4109.9	11.5
40°-50°	6427.6	18.0
50°-60°	10385.5	29.0
60°-70°	9351.4	26.1
70°-80°	1107.7	3.1
80°-90°	151.6	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°	35763.3	100.0
0°-180°	35763.3	100.0

Coefficient of Utilization



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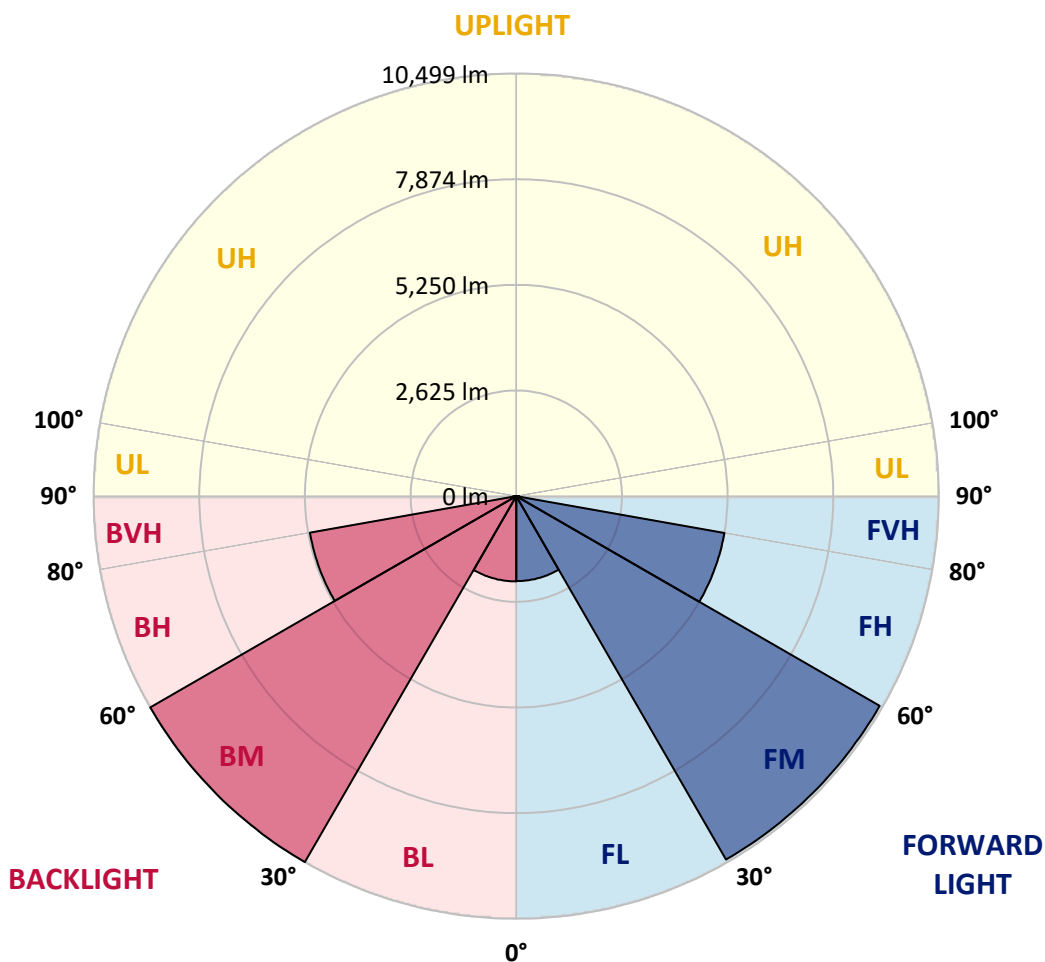
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.7	5.9			
FM (30°-60°)	10423.9	29.1			
FH (60°-80°)	5252.2	14.7			G3/7500
FVH (80°-90°)	77.8	0.2			G1/100
BL (0°-30°)	2118.8	5.9	B3/2500		
BM (30°-60°)	10499.1	29.4	B5		
BH (60°-80°)	5206.9	14.6	B5		G3/7500
BVH (80°-90°)	73.8	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1
2.5°	4137.9	4146.1	4220.0	4191.2	4215.9	4170.7	4203.6	4273.3	4191.2	4252.8	4273.3
5°	4183.0	4195.4	4195.4	4224.1	4240.5	4232.3	4252.8	4224.1	4302.0	4269.2	4318.4
7.5°	4347.1	4326.6	4293.8	4318.4	4322.5	4343.0	4363.5	4400.4	4388.1	4359.4	4408.6
10°	4375.8	4359.4	4408.6	4412.7	4392.2	4375.8	4396.3	4396.3	4433.2	4441.4	4441.4
12.5°	4425.0	4441.4	4437.3	4470.1	4474.2	4461.9	4494.7	4556.2	4539.8	4552.1	4523.4
15°	4613.7	4593.2	4589.0	4621.9	4675.2	4597.3	4654.7	4650.6	4634.2	4658.8	4593.2
17.5°	4777.7	4712.1	4740.8	4794.1	4773.6	4790.0	4863.8	4798.2	4814.6	4785.9	4765.4
20°	4921.2	4867.9	4872.0	4892.5	4892.5	4941.7	4970.4	4945.8	4929.4	4925.3	4933.5
22.5°	5081.2	5019.7	5023.8	5109.9	5138.6	5122.2	5101.7	5142.7	5150.9	5118.1	5155.0
25°	5200.1	5265.7	5286.2	5327.2	5265.7	5310.8	5294.4	5372.3	5421.6	5355.9	5401.1
27.5°	5511.8	5483.1	5536.4	5532.3	5581.5	5536.4	5565.1	5589.7	5610.2	5614.3	5593.8
30°	5790.7	5803.0	5749.6	5893.2	5778.3	5852.2	5901.4	5913.7	5938.3	5938.3	5876.8
32.5°	6085.9	6061.3	6147.4	6114.6	6094.1	6151.5	6098.2	6266.4	6167.9	6225.4	6155.6
35°	6418.1	6418.1	6450.9	6541.1	6418.1	6381.2	6479.6	6549.3	6549.3	6446.8	6471.4
37.5°	6791.3	6758.5	6799.5	6914.3	6820.0	6697.0	6877.4	6906.1	6885.6	6856.9	6807.7
40°	7053.8	7045.6	7127.6	7279.3	7144.0	7119.4	7152.2	7230.1	7254.7	7283.4	7217.8
42.5°	7496.7	7533.6	7771.4	7734.5	7623.8	7537.7	7529.5	7820.7	7750.9	7677.1	7640.2
45°	8152.8	8120.0	8243.1	8247.2	8103.6	7915.0	7956.0	8222.6	8341.5	8177.4	8239.0
47.5°	8673.7	8690.1	8776.2	8952.5	8620.4	8423.5	8575.2	9005.9	8968.9	8907.4	8964.8
50°	9370.8	9444.7	9715.3	9653.8	9358.5	9116.6	9448.8	9854.8	9899.9	9674.3	9633.3
52.5°	10334.6	10449.4	10597.1	10646.3	10363.3	10277.2	10297.7	10802.1	10691.4	10474.0	10334.6
55°	11179.4	11232.7	11503.4	11909.4	11888.9	11474.7	11712.5	11901.2	11450.1	11003.1	11040.0
57.5°	11540.3	11564.9	12319.5	13131.5	13615.4	13709.7	13439.1	12803.4	11728.9	10867.7	10814.4
60°	10642.2	10875.9	11786.4	13619.5	15830.0	16920.8	15120.5	12905.9	11076.9	10031.1	9953.2
62.5°	8505.5	8517.8	9871.2	12651.7	17207.9	20066.3	15764.3	11942.2	9338.0	8152.8	7841.2
64°	6057.2	6172.0	7726.3	11199.9	16920.8	21345.8	15686.4	10683.2	7697.6	6016.2	5798.9
65°	4347.1	4507.0	6008.0	9723.5	16248.3	21194.1	15452.7	9600.5	6225.4	4593.2	4371.7
67.5°	1599.4	1665.0	2358.1	4863.8	11667.4	18060.9	12245.7	5278.0	2735.4	1948.0	1751.1
70°	742.3	746.4	873.5	1607.6	5101.7	12077.5	5844.0	1980.8	1029.4	816.1	758.7
72.5°	545.4	557.7	611.1	742.3	1501.0	5114.0	1919.3	812.0	602.9	533.1	520.8
75°	442.9	451.1	467.5	537.2	693.1	1369.7	779.2	561.8	479.8	430.6	414.2
77.5°	340.4	340.4	377.3	410.1	459.3	639.8	516.7	447.0	389.6	340.4	328.1
80°	246.1	250.2	295.3	319.9	311.7	422.4	373.2	369.1	319.9	266.6	246.1
82.5°	143.5	155.8	213.3	229.7	221.5	250.2	270.7	287.1	250.2	184.5	168.1
85°	82.0	86.1	123.0	127.1	127.1	118.9	155.8	172.2	168.1	114.8	102.5
87.5°	24.6	24.6	32.8	32.8	36.9	41.0	61.5	73.8	82.0	57.4	53.3
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°	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1	4187.1
2.5°	4252.8	4191.2	4195.4	4211.8	4158.4	4178.9	4240.5	4195.4	4183.0	4158.4	4146.1
5°	4232.3	4297.9	4273.3	4281.5	4269.2	4211.8	4203.6	4240.5	4261.0	4224.1	4297.9
7.5°	4375.8	4347.1	4314.3	4326.6	4297.9	4347.1	4379.9	4306.1	4343.0	4322.5	4281.5
10°	4457.8	4404.5	4429.1	4420.9	4400.4	4449.6	4416.8	4408.6	4375.8	4330.7	4396.3
12.5°	4486.5	4548.0	4589.0	4519.3	4531.6	4507.0	4486.5	4486.5	4449.6	4437.3	4449.6
15°	4613.7	4667.0	4650.6	4703.9	4634.2	4658.8	4683.4	4621.9	4654.7	4564.4	4634.2
17.5°	4847.4	4802.3	4859.7	4790.0	4814.6	4863.8	4785.9	4785.9	4810.5	4761.3	4699.8
20°	4995.1	4974.5	4954.0	4958.1	4917.1	4962.2	4937.6	4925.3	4888.4	4904.8	4937.6
22.5°	5134.5	5105.8	5114.0	5126.3	5155.0	5134.5	5122.2	5134.5	5044.3	5126.3	5011.5
25°	5306.7	5384.6	5360.0	5413.4	5331.3	5384.6	5380.5	5302.6	5351.8	5319.0	5294.4
27.5°	5593.8	5552.8	5589.7	5524.1	5581.5	5585.6	5536.4	5667.6	5610.2	5602.0	5585.6
30°	5962.9	5934.2	5909.6	5872.7	5917.8	5880.9	5921.9	5934.2	5880.9	5839.9	5761.9
32.5°	6172.0	6250.0	6278.7	6188.4	6192.6	6213.1	6176.1	6139.2	6172.0	6184.3	6172.0
35°	6467.3	6541.1	6557.5	6487.8	6450.9	6553.4	6479.6	6602.7	6496.0	6500.1	6389.4
37.5°	6811.8	6832.3	6971.7	6893.8	6861.0	6811.8	6947.1	6930.7	6955.3	6758.5	6856.9
40°	7201.4	7275.2	7353.1	7156.3	7152.2	7197.3	7189.1	7283.4	7238.3	7209.6	7139.9
42.5°	7627.9	7783.7	7796.1	7664.8	7582.8	7574.6	7615.6	7824.8	7828.9	7640.2	7558.2
45°	8193.9	8366.1	8321.0	8066.7	7976.5	7964.2	8165.1	8255.4	8333.3	8259.5	8189.8
47.5°	8899.2	9014.1	8981.2	8747.5	8456.3	8538.3	8735.2	9018.2	8936.1	8837.7	8755.7
50°	9653.8	9789.2	9719.4	9485.7	9206.8	9206.8	9448.8	9809.7	9785.1	9592.3	9518.5
52.5°	10490.4	10687.3	10847.2	10515.0	10281.3	10318.2	10699.6	10830.8	10769.3	10634.0	10572.4
55°	11113.8	11491.1	11819.2	11835.6	11847.9	11843.8	11942.2	12073.4	11634.6	11417.3	11195.8
57.5°	10962.0	11675.6	12799.3	13562.1	13787.7	13906.6	13873.8	13266.8	12229.3	11515.7	11589.5
60°	9879.4	11044.1	12856.7	15305.0	16945.4	16781.4	16182.7	13783.6	11901.2	10695.5	10543.7
62.5°	7882.2	9284.7	11893.0	15797.2	20316.5	20267.3	17134.1	12590.2	9916.3	8390.7	8296.4
64°	5938.3	7414.7	10609.4	15670.0	21497.6	21546.8	16892.1	11122.0	7759.1	5938.3	5794.8
65°	4543.9	5913.7	9350.3	15407.6	21243.3	21272.0	16219.6	9604.6	5897.3	4215.9	4060.0
67.5°	1808.6	2518.0	5073.0	11683.8	18241.4	18163.4	11573.1	4646.5	2255.6	1468.2	1439.5
70°	771.0	959.6	1779.8	5536.4	12212.9	11987.3	4982.7	1509.2	836.6	701.3	697.2
72.5°	529.0	586.4	762.8	1710.1	5077.1	4958.1	1419.0	701.3	570.0	524.9	524.9
75°	426.5	467.5	553.6	717.7	1345.1	1295.9	668.5	516.7	455.2	422.4	418.3
77.5°	332.2	373.2	434.7	496.2	615.2	611.1	447.0	389.6	352.7	328.1	319.9
80°	262.5	303.5	344.5	352.7	401.9	393.7	303.5	307.6	287.1	237.9	233.8
82.5°	180.4	246.1	274.8	250.2	237.9	237.9	217.4	217.4	201.0	147.6	135.3
85°	110.7	164.0	172.2	147.6	110.7	110.7	118.9	114.8	106.6	77.9	73.8
87.5°	57.4	77.9	69.7	57.4	36.9	36.9	32.8	24.6	24.6	20.5	20.5
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)