

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: P479071

Luminaire Tested: **IFLD-S-SA6D-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479071  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

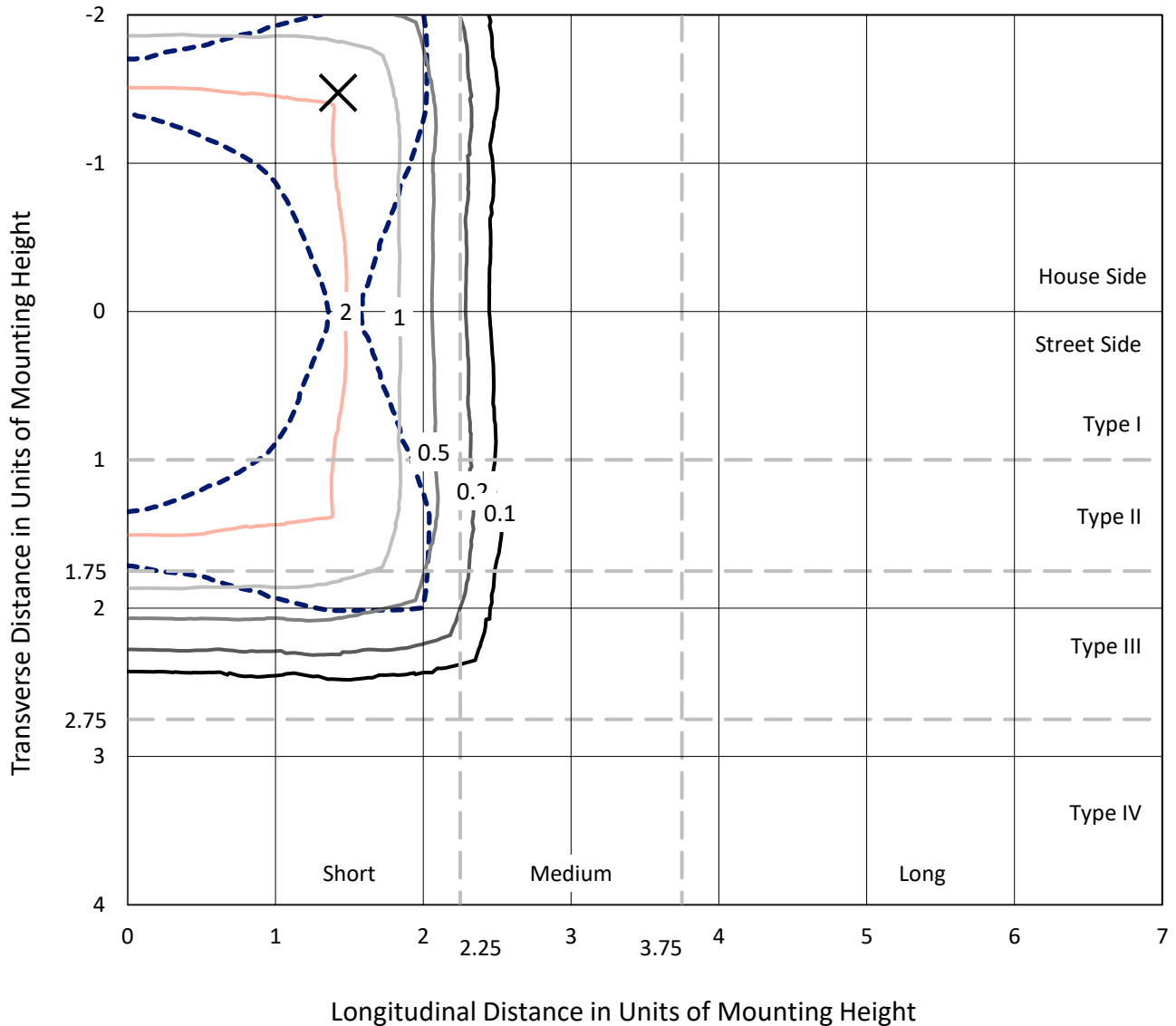
Lumens per Lamp: N/A  
Luminaire Lumens: 33521.9 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

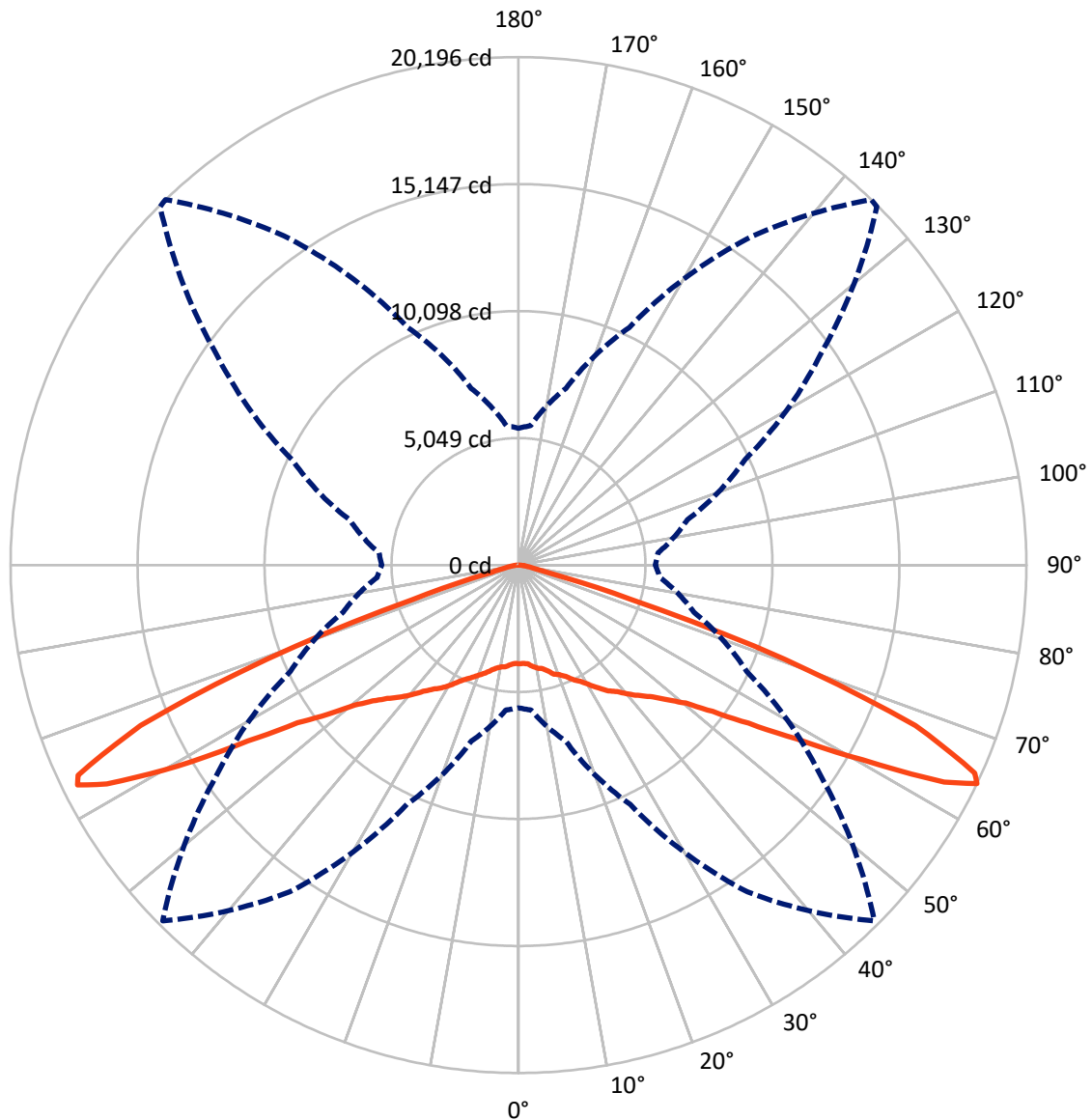
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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
<b>House Side</b>	Lumens	16776.9	0.0	16776.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16745.0	0.0	16745.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33521.9	0.0	33521.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.6	1.2
10°-20°	1242.9	3.7
20°-30°	2335.9	7.0
30°-40°	3852.3	11.5
40°-50°	6024.8	18.0
50°-60°	9734.6	29.0
60°-70°	8765.3	26.1
70°-80°	1038.3	3.1
80°-90°	142.1	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°	33521.9	100.0
0°-180°	33521.9	100.0

**Coefficient of Utilization**



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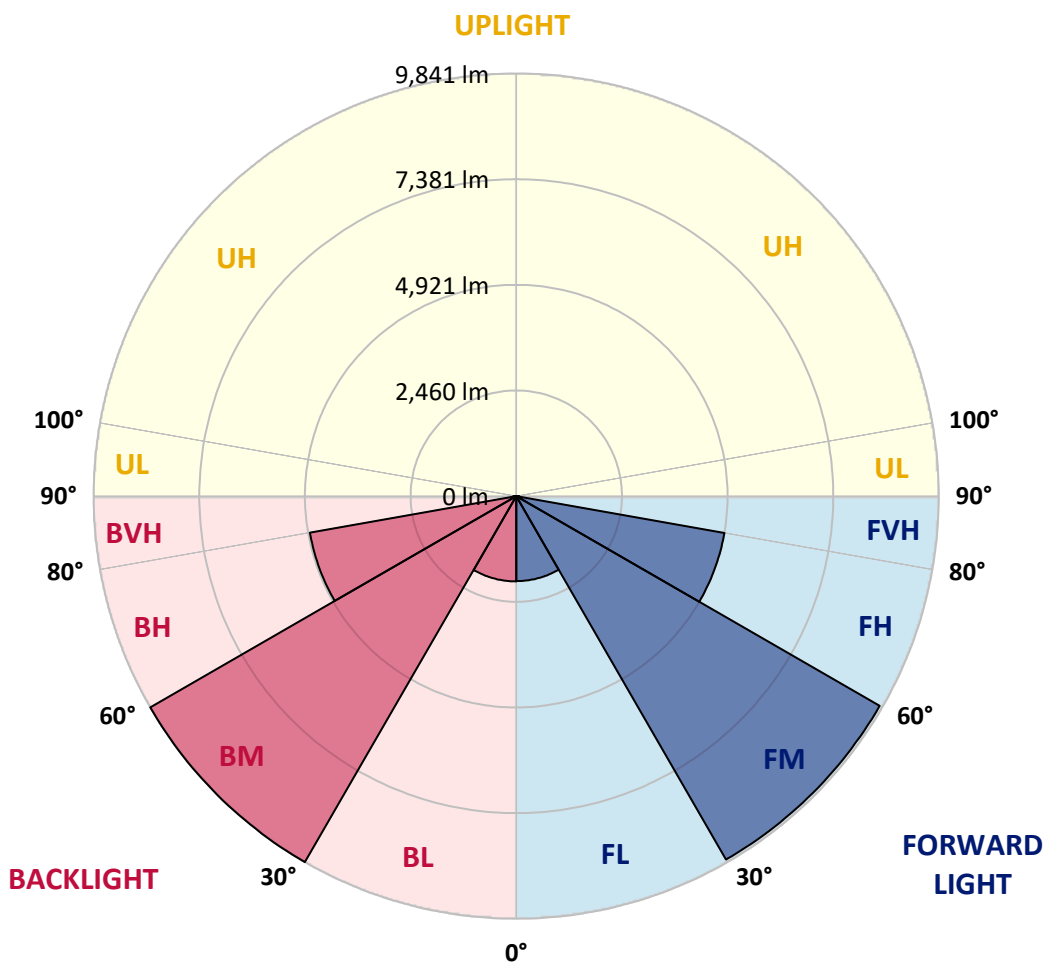
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.4	5.9			
FM (30°-60°)	9770.6	29.1			
FH (60°-80°)	4923.1	14.7			G2/5000
FVH (80°-90°)	72.9	0.2			G1/100
BL (0°-30°)	1986.0	5.9	B3/2500		
BM (30°-60°)	9841.1	29.4	B5		
BH (60°-80°)	4880.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	69.2	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°	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7
2.5°	3878.6	3886.3	3955.5	3928.6	3951.6	3909.3	3940.1	4005.4	3928.6	3986.2	4005.4
5°	3920.9	3932.4	3932.4	3959.3	3974.7	3967.0	3986.2	3959.3	4032.4	4001.6	4047.7
7.5°	4074.6	4055.4	4024.7	4047.7	4051.6	4070.8	4090.0	4124.6	4113.1	4086.2	4132.3
10°	4101.5	4086.2	4132.3	4136.1	4116.9	4101.5	4120.8	4120.8	4155.4	4163.0	4163.0
12.5°	4147.7	4163.0	4159.2	4190.0	4193.8	4182.3	4213.0	4270.7	4255.3	4266.8	4239.9
15°	4324.5	4305.3	4301.4	4332.2	4382.2	4309.1	4362.9	4359.1	4343.7	4366.8	4305.3
17.5°	4478.3	4416.7	4443.7	4493.6	4474.4	4489.8	4559.0	4497.5	4512.8	4485.9	4466.7
20°	4612.8	4562.8	4566.7	4585.9	4585.9	4632.0	4658.9	4635.9	4620.5	4616.6	4624.3
22.5°	4762.7	4705.0	4708.9	4789.6	4816.5	4801.1	4781.9	4820.4	4828.1	4797.3	4831.9
25°	4874.2	4935.7	4954.9	4993.3	4935.7	4978.0	4962.6	5035.6	5081.8	5020.3	5062.5
27.5°	5166.3	5139.4	5189.4	5185.5	5231.7	5189.4	5216.3	5239.4	5258.6	5262.4	5243.2
30°	5427.7	5439.3	5389.3	5523.8	5416.2	5485.4	5531.5	5543.0	5566.1	5566.1	5508.4
32.5°	5704.5	5681.4	5762.1	5731.4	5712.2	5766.0	5716.0	5873.6	5781.4	5835.2	5769.8
35°	6015.9	6015.9	6046.6	6131.2	6015.9	5981.3	6073.5	6138.9	6138.9	6042.8	6065.8
37.5°	6365.7	6334.9	6373.3	6481.0	6392.6	6277.2	6446.4	6473.3	6454.1	6427.2	6381.0
40°	6611.7	6604.0	6680.9	6823.1	6696.2	6673.2	6703.9	6777.0	6800.0	6826.9	6765.4
42.5°	7026.8	7061.4	7284.4	7249.8	7146.0	7065.3	7057.6	7330.5	7265.1	7196.0	7161.4
45°	7641.9	7611.1	7726.4	7730.3	7595.7	7418.9	7457.3	7707.2	7818.7	7664.9	7722.6
47.5°	8130.0	8145.4	8226.1	8391.4	8080.1	7895.6	8037.8	8441.4	8406.8	8349.2	8403.0
50°	8783.5	8852.7	9106.4	9048.8	8772.0	8545.2	8856.6	9237.1	9279.4	9068.0	9029.5
52.5°	9686.9	9794.5	9932.9	9979.0	9713.8	9633.1	9652.3	10125.1	10021.3	9817.6	9686.9
55°	10478.7	10528.7	10782.4	11163.0	11143.7	10755.5	10978.4	11155.3	10732.4	10313.4	10348.0
57.5°	10817.0	10840.1	11547.4	12308.5	12762.1	12850.5	12596.8	12001.0	10993.8	10186.6	10136.6
60°	9975.2	10194.3	11047.6	12765.9	14837.8	15860.3	14172.8	12097.1	10382.6	9402.4	9329.4
62.5°	7972.4	7984.0	9252.5	11858.7	16129.4	18808.7	14776.3	11193.7	8752.8	7641.9	7349.7
64°	5677.6	5785.2	7242.1	10497.9	15860.3	20008.0	14703.3	10013.6	7215.2	5639.1	5435.4
65°	4074.6	4224.6	5631.5	9114.1	15229.9	19865.8	14484.2	8998.8	5835.2	4305.3	4097.7
67.5°	1499.2	1560.7	2210.3	4559.0	10936.2	16929.0	11478.2	4947.2	2563.9	1825.9	1641.4
70°	695.8	699.6	818.8	1506.8	4781.9	11320.6	5477.7	1856.6	964.8	765.0	711.1
72.5°	511.3	522.8	572.8	695.8	1406.9	4793.5	1799.0	761.1	565.1	499.7	488.2
75°	415.2	422.8	438.2	503.6	649.6	1283.9	730.4	526.6	449.7	403.6	388.2
77.5°	319.1	319.1	353.6	384.4	430.5	599.7	484.3	419.0	365.2	319.1	307.5
80°	230.6	234.5	276.8	299.8	292.1	395.9	349.8	346.0	299.8	249.9	230.6
82.5°	134.5	146.1	199.9	215.3	207.6	234.5	253.7	269.1	234.5	173.0	157.6
85°	76.9	80.7	115.3	119.2	119.2	111.5	146.1	161.4	157.6	107.6	96.1
87.5°	23.1	23.1	30.8	30.8	34.6	38.4	57.7	69.2	76.9	53.8	50.0
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°	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7	3924.7
2.5°	3986.2	3928.6	3932.4	3947.8	3897.8	3917.0	3974.7	3932.4	3920.9	3897.8	3886.3
5°	3967.0	4028.5	4005.4	4013.1	4001.6	3947.8	3940.1	3974.7	3993.9	3959.3	4028.5
7.5°	4101.5	4074.6	4043.9	4055.4	4028.5	4074.6	4105.4	4036.2	4070.8	4051.6	4013.1
10°	4178.4	4128.5	4151.5	4143.8	4124.6	4170.7	4140.0	4132.3	4101.5	4059.3	4120.8
12.5°	4205.3	4263.0	4301.4	4236.1	4247.6	4224.6	4205.3	4205.3	4170.7	4159.2	4170.7
15°	4324.5	4374.5	4359.1	4409.1	4343.7	4366.8	4389.8	4332.2	4362.9	4278.4	4343.7
17.5°	4543.6	4501.3	4555.1	4489.8	4512.8	4559.0	4485.9	4485.9	4509.0	4462.9	4405.2
20°	4682.0	4662.8	4643.5	4647.4	4608.9	4651.2	4628.2	4616.6	4582.0	4597.4	4628.2
22.5°	4812.7	4785.8	4793.5	4805.0	4831.9	4812.7	4801.1	4812.7	4728.1	4805.0	4697.4
25°	4974.1	5047.2	5024.1	5074.1	4997.2	5047.2	5043.3	4970.3	5016.4	4985.7	4962.6
27.5°	5243.2	5204.8	5239.4	5177.9	5231.7	5235.5	5189.4	5312.4	5258.6	5250.9	5235.5
30°	5589.2	5562.3	5539.2	5504.6	5546.9	5512.3	5550.7	5562.3	5512.3	5473.8	5400.8
32.5°	5785.2	5858.2	5885.2	5800.6	5804.4	5823.7	5789.1	5754.5	5785.2	5796.7	5785.2
35°	6062.0	6131.2	6146.5	6081.2	6046.6	6142.7	6073.5	6188.8	6088.9	6092.7	5988.9
37.5°	6384.9	6404.1	6534.8	6461.8	6431.0	6384.9	6511.7	6496.4	6519.4	6334.9	6427.2
40°	6750.1	6819.2	6892.3	6707.8	6703.9	6746.2	6738.5	6826.9	6784.7	6757.7	6692.4
42.5°	7149.8	7295.9	7307.4	7184.4	7107.5	7099.9	7138.3	7334.3	7338.2	7161.4	7084.5
45°	7680.3	7841.7	7799.5	7561.1	7476.6	7465.0	7653.4	7738.0	7811.0	7741.8	7676.5
47.5°	8341.5	8449.1	8418.3	8199.2	7926.3	8003.2	8187.7	8452.9	8376.1	8283.8	8206.9
50°	9048.8	9175.6	9110.3	8891.2	8629.8	8629.8	8856.6	9194.8	9171.8	8991.1	8921.9
52.5°	9832.9	10017.5	10167.4	9856.0	9636.9	9671.5	10029.0	10152.0	10094.3	9967.5	9909.8
55°	10417.2	10770.9	11078.4	11093.8	11105.3	11101.5	11193.7	11316.7	10905.4	10701.7	10494.1
57.5°	10275.0	10943.9	11997.1	12712.1	12923.5	13035.0	13004.2	12435.3	11462.8	10793.9	10863.1
60°	9260.2	10351.9	12050.9	14345.8	15883.4	15729.6	15168.4	12919.7	11155.3	10025.1	9882.9
62.5°	7388.2	8702.8	11147.6	14807.1	19043.1	18997.0	16060.2	11801.1	9294.8	7864.8	7776.4
64°	5566.1	6949.9	9944.4	14687.9	20150.2	20196.3	15833.4	10424.9	7272.8	5566.1	5431.6
65°	4259.1	5543.0	8764.3	14441.9	19911.9	19938.8	15203.0	9002.6	5527.7	3951.6	3805.6
67.5°	1695.2	2360.2	4755.0	10951.5	17098.1	17025.1	10847.8	4355.2	2114.2	1376.2	1349.2
70°	722.7	899.5	1668.3	5189.4	11447.4	11236.0	4670.5	1414.6	784.2	657.3	653.5
72.5°	495.9	549.7	715.0	1602.9	4758.9	4647.4	1330.0	657.3	534.3	492.0	492.0
75°	399.8	438.2	518.9	672.7	1260.8	1214.7	626.6	484.3	426.7	395.9	392.1
77.5°	311.4	349.8	407.5	465.1	576.6	572.8	419.0	365.2	330.6	307.5	299.8
80°	246.0	284.5	322.9	330.6	376.7	369.0	284.5	288.3	269.1	223.0	219.1
82.5°	169.1	230.6	257.5	234.5	223.0	223.0	203.7	203.7	188.4	138.4	126.9
85°	103.8	153.8	161.4	138.4	103.8	103.8	111.5	107.6	99.9	73.0	69.2
87.5°	53.8	73.0	65.3	53.8	34.6	34.6	30.8	23.1	23.1	19.2	19.2
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)