

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: P479460

Luminaire Tested: **IFLD-S-SA6C-827-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479460  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

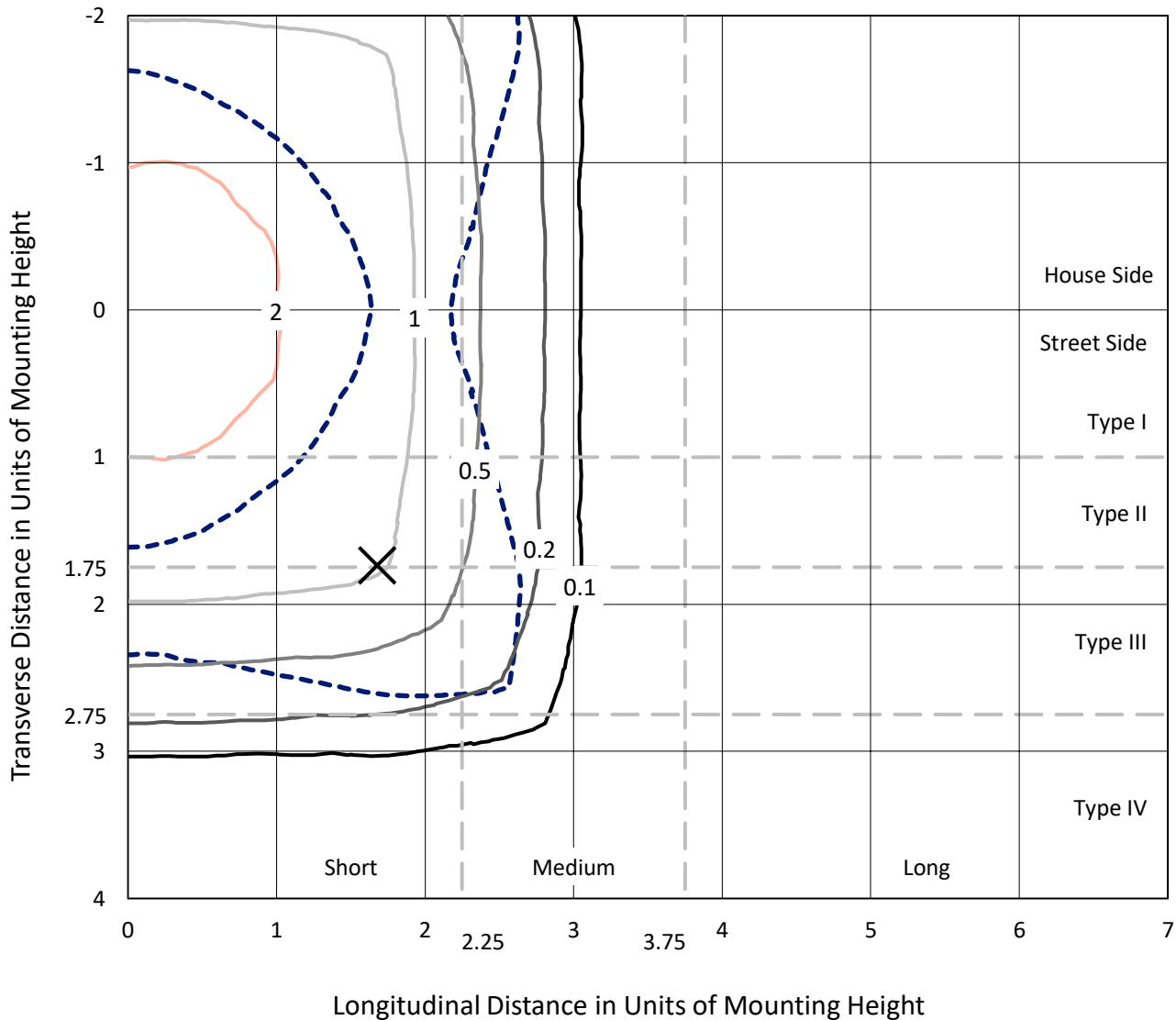
Lumens per Lamp: N/A  
Luminaire Lumens: 30832.1 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

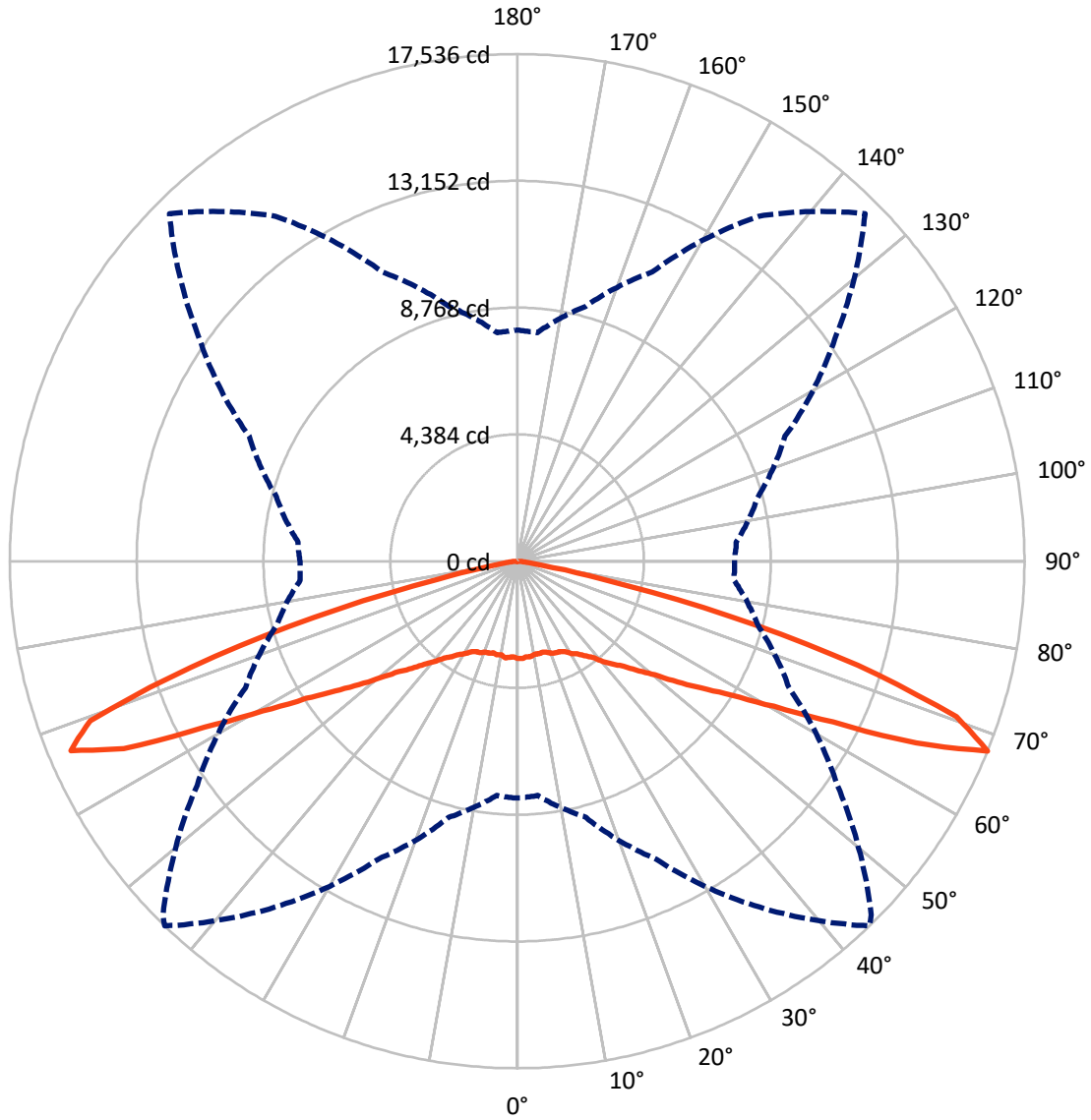
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15376.6	0.0	15376.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15455.5	0.0	15455.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	30832.1	0.0	30832.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.7	1.0
10°-20°	931.1	3.0
20°-30°	1583.3	5.1
30°-40°	2510.5	8.1
40°-50°	4093.5	13.3
50°-60°	6991.2	22.7
60°-70°	10633.5	34.5
70°-80°	3584.2	11.6
80°-90°	186.1	0.6
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°	30832.1	100.0
0°-180°	30832.1	100.0

**Coefficient of Utilization**

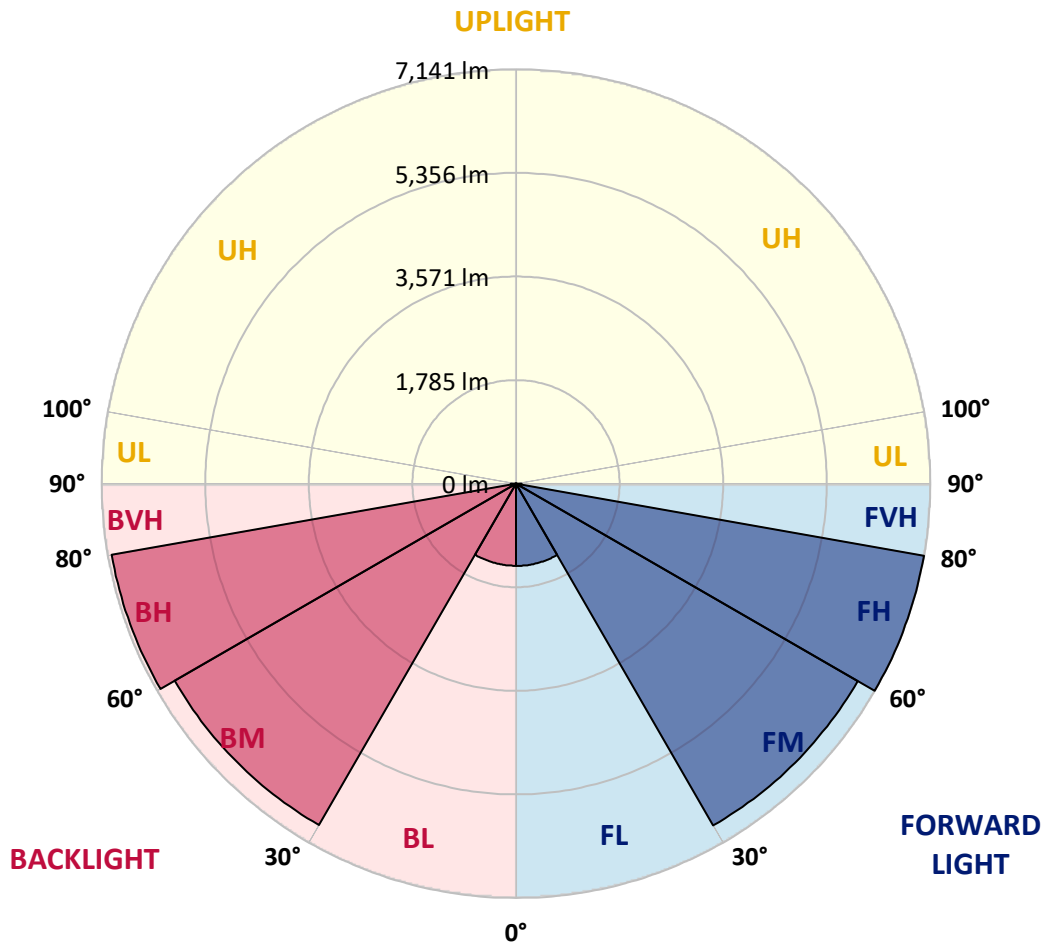


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.0	4.6			
FM (30°-60°)	6801.3	22.1			
FH (60°-80°)	7141.0	23.2			G3/7500
FVH (80°-90°)	95.2	0.3			G1/100
BL (0°-30°)	1415.1	4.6	B3/2500		
BM (30°-60°)	6793.9	22.0	B4/8500		
BH (60°-80°)	7076.7	23.0	B5		G3/7500
BVH (80°-90°)	90.9	0.3			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°	44°	45°	55°	65°	75°	85°
0°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3290.5	3329.2	3357.3	3353.8	3364.4	3374.9	3360.8	3382.0	3367.9	3392.5	3406.6
5°	3353.8	3343.2	3346.8	3325.6	3374.9	3318.6	3318.6	3346.8	3382.0	3339.7	3364.4
7.5°	3315.1	3308.1	3290.5	3322.1	3332.7	3332.7	3360.8	3308.1	3367.9	3382.0	3385.5
10°	3272.9	3234.1	3286.9	3318.6	3325.6	3269.3	3294.0	3308.1	3290.5	3308.1	3318.6
12.5°	3237.7	3258.8	3258.8	3258.8	3248.2	3286.9	3311.6	3308.1	3272.9	3304.5	3248.2
15°	3234.1	3223.6	3255.3	3283.4	3265.8	3272.9	3283.4	3315.1	3248.2	3262.3	3262.3
17.5°	3230.6	3244.7	3255.3	3251.7	3311.6	3311.6	3301.0	3279.9	3332.7	3304.5	3265.8
20°	3244.7	3234.1	3262.3	3272.9	3315.1	3399.6	3367.9	3350.3	3322.1	3286.9	3286.9
22.5°	3262.3	3255.3	3294.0	3339.7	3420.7	3441.8	3438.3	3417.1	3367.9	3325.6	3318.6
25°	3325.6	3262.3	3304.5	3392.5	3420.7	3462.9	3491.1	3462.9	3396.0	3406.6	3343.2
27.5°	3420.7	3410.1	3466.4	3526.2	3501.6	3540.3	3515.7	3536.8	3540.3	3487.5	3424.2
30°	3533.3	3501.6	3536.8	3652.9	3663.5	3705.7	3663.5	3607.2	3624.8	3579.0	3547.4
32.5°	3695.2	3684.6	3751.5	3828.9	3843.0	3821.9	3800.7	3832.4	3758.5	3723.3	3667.0
35°	3800.7	3846.5	3927.4	3987.3	4033.0	4011.9	4022.5	3990.8	4008.4	3934.5	3909.8
37.5°	4113.9	4096.4	4113.9	4216.0	4226.6	4216.0	4226.6	4261.8	4237.1	4173.8	4110.4
40°	4409.6	4381.4	4423.6	4539.8	4532.7	4567.9	4497.5	4536.3	4536.3	4416.6	4392.0
42.5°	4631.3	4726.3	4775.6	4870.6	4905.8	4874.1	4860.0	4867.1	4944.5	4803.7	4750.9
45°	5088.8	5085.3	5233.1	5285.8	5187.3	5180.3	5152.1	5236.6	5289.4	5208.4	5187.3
47.5°	5585.0	5609.6	5694.1	5715.2	5775.0	5665.9	5665.9	5676.5	5863.0	5673.0	5574.4
50°	6031.9	6063.6	6232.5	6397.9	6285.3	6169.2	6214.9	6271.2	6373.3	6193.8	6109.3
52.5°	6573.9	6746.3	6858.9	6946.9	7027.9	6946.9	6841.3	6904.7	7105.3	6866.0	6760.4
55°	7355.1	7492.4	7598.0	7759.8	7826.7	7717.6	7707.1	7700.0	7812.6	7559.3	7415.0
57.5°	8227.9	8171.6	8340.5	8590.4	8833.2	8727.6	8696.0	8703.0	8731.1	8372.2	8263.1
60°	9311.8	9375.2	9575.8	9793.9	10050.8	10198.7	9991.0	9871.4	9896.0	9406.8	9237.9
62.5°	9931.2	10072.0	10525.9	11275.5	11792.9	12253.9	12285.5	11507.8	10987.0	10036.8	9318.9
65°	9632.1	9610.9	10466.1	11852.7	13812.9	15153.7	14953.1	13066.8	11247.4	9737.6	8773.4
67.5°	8192.7	8136.4	9171.0	11370.5	14608.2	17536.2	17307.4	13506.7	10367.6	8615.0	7524.1
70°	5278.8	5264.7	6387.4	8667.8	13042.2	16100.4	16184.8	12267.9	8439.1	6309.9	5229.5
72.5°	1918.0	2034.1	2685.2	4659.4	8857.8	12317.2	12370.0	9083.1	4853.0	2917.4	2150.2
75°	707.4	728.5	848.1	1513.3	4036.5	7562.8	7759.8	4406.0	1724.4	950.2	774.2
77.5°	408.2	411.7	454.0	563.1	1196.5	2952.6	3072.3	1337.3	668.6	506.8	468.1
80°	278.0	274.5	320.2	366.0	478.6	837.6	890.4	559.6	422.3	351.9	295.6
82.5°	161.9	172.4	235.8	260.4	292.1	369.5	376.6	348.4	316.7	260.4	193.6
85°	98.5	80.9	130.2	144.3	168.9	165.4	165.4	190.0	204.1	183.0	109.1
87.5°	24.6	24.6	31.7	35.2	45.7	35.2	38.7	73.9	98.5	91.5	56.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3374.9	3364.4	3371.4	3410.1	3385.5	3311.6	3329.2	3367.9	3336.2	3318.6	3315.1
5°	3360.8	3382.0	3357.3	3364.4	3389.0	3329.2	3339.7	3389.0	3367.9	3374.9	3336.2
7.5°	3364.4	3374.9	3353.8	3322.1	3322.1	3371.4	3343.2	3350.3	3318.6	3371.4	3301.0
10°	3343.2	3315.1	3290.5	3308.1	3301.0	3286.9	3276.4	3297.5	3265.8	3311.6	3262.3
12.5°	3279.9	3286.9	3279.9	3272.9	3286.9	3322.1	3265.8	3272.9	3223.6	3230.6	3255.3
15°	3255.3	3276.4	3269.3	3308.1	3325.6	3272.9	3315.1	3272.9	3234.1	3213.0	3251.7
17.5°	3265.8	3297.5	3286.9	3315.1	3283.4	3322.1	3329.2	3311.6	3265.8	3248.2	3265.8
20°	3276.4	3265.8	3279.9	3329.2	3374.9	3336.2	3336.2	3325.6	3283.4	3258.8	3258.8
22.5°	3301.0	3283.4	3304.5	3343.2	3357.3	3417.1	3364.4	3339.7	3269.3	3206.0	3265.8
25°	3350.3	3360.8	3374.9	3360.8	3438.3	3431.2	3424.2	3406.6	3297.5	3301.0	3290.5
27.5°	3445.3	3385.5	3403.1	3487.5	3498.1	3526.2	3491.1	3522.7	3406.6	3410.1	3339.7
30°	3561.4	3498.1	3554.4	3628.3	3624.8	3677.6	3660.0	3667.0	3586.1	3540.3	3445.3
32.5°	3688.1	3681.1	3716.3	3762.0	3779.6	3807.8	3804.3	3804.3	3755.0	3635.3	3652.9
35°	3828.9	3878.2	3920.4	3969.7	3976.7	4011.9	3962.6	3969.7	3920.4	3832.4	3860.6
37.5°	4106.9	4103.4	4149.1	4209.0	4216.0	4187.9	4226.6	4209.0	4142.1	4082.3	4036.5
40°	4430.7	4360.3	4402.5	4543.3	4553.9	4504.6	4501.1	4497.5	4448.3	4318.1	4289.9
42.5°	4712.2	4803.7	4796.7	4842.4	4810.8	4786.1	4874.1	4824.8	4786.1	4648.9	4624.2
45°	5074.7	5102.8	5194.3	5342.2	5190.8	5190.8	5250.7	5211.9	5190.8	5088.8	4993.8
47.5°	5525.2	5549.8	5732.8	5743.3	5644.8	5577.9	5764.5	5771.5	5683.5	5606.1	5490.0
50°	6053.0	6063.6	6229.0	6397.9	6288.8	6162.1	6352.2	6426.1	6229.0	6123.4	5979.1
52.5°	6633.7	6602.0	6739.3	7056.0	6950.4	6911.7	7115.8	7133.4	6866.0	6700.6	6739.3
55°	7302.3	7260.1	7633.2	7847.8	7781.0	7710.6	7802.1	7844.3	7629.6	7358.7	7453.7
57.5°	8168.1	8189.2	8375.7	8586.9	8696.0	8713.5	8755.8	8713.5	8495.4	8220.9	8132.9
60°	9033.8	9097.1	9459.6	9857.3	9892.5	10202.2	10145.9	9934.7	9625.0	9234.4	9252.0
62.5°	9354.0	9301.3	9885.4	10856.7	11683.8	12250.3	12000.5	11250.9	10533.0	9822.1	9874.9
65°	8710.0	8840.2	9635.6	11155.9	12950.7	15192.4	13862.1	11789.3	10339.4	9420.9	9318.9
67.5°	7506.5	7605.0	8615.0	10219.8	13404.6	17001.3	14566.0	11029.2	9118.3	7928.8	7992.1
70°	5229.5	5278.8	6267.7	8372.2	12155.3	16044.1	13140.7	8470.7	6295.9	5018.4	5088.8
72.5°	2104.5	2224.1	2875.2	5043.0	8974.0	12190.5	8847.3	4444.8	2611.2	1942.6	1763.1
75°	777.7	781.3	918.5	1735.0	4261.8	7661.3	3990.8	1428.8	834.1	682.7	651.1
77.5°	450.5	446.9	478.6	626.4	1235.2	2991.3	1133.2	559.6	454.0	408.2	390.6
80°	281.5	278.0	327.3	415.3	542.0	820.0	478.6	348.4	306.2	263.9	263.9
82.5°	179.5	183.0	256.9	306.2	330.8	362.5	278.0	246.3	228.7	151.3	147.8
85°	116.1	105.6	179.5	204.1	183.0	161.9	154.8	130.2	119.7	73.9	80.9
87.5°	52.8	56.3	91.5	102.1	66.9	38.7	38.7	28.2	28.2	17.6	17.6
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)