

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: P479499

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

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479499
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

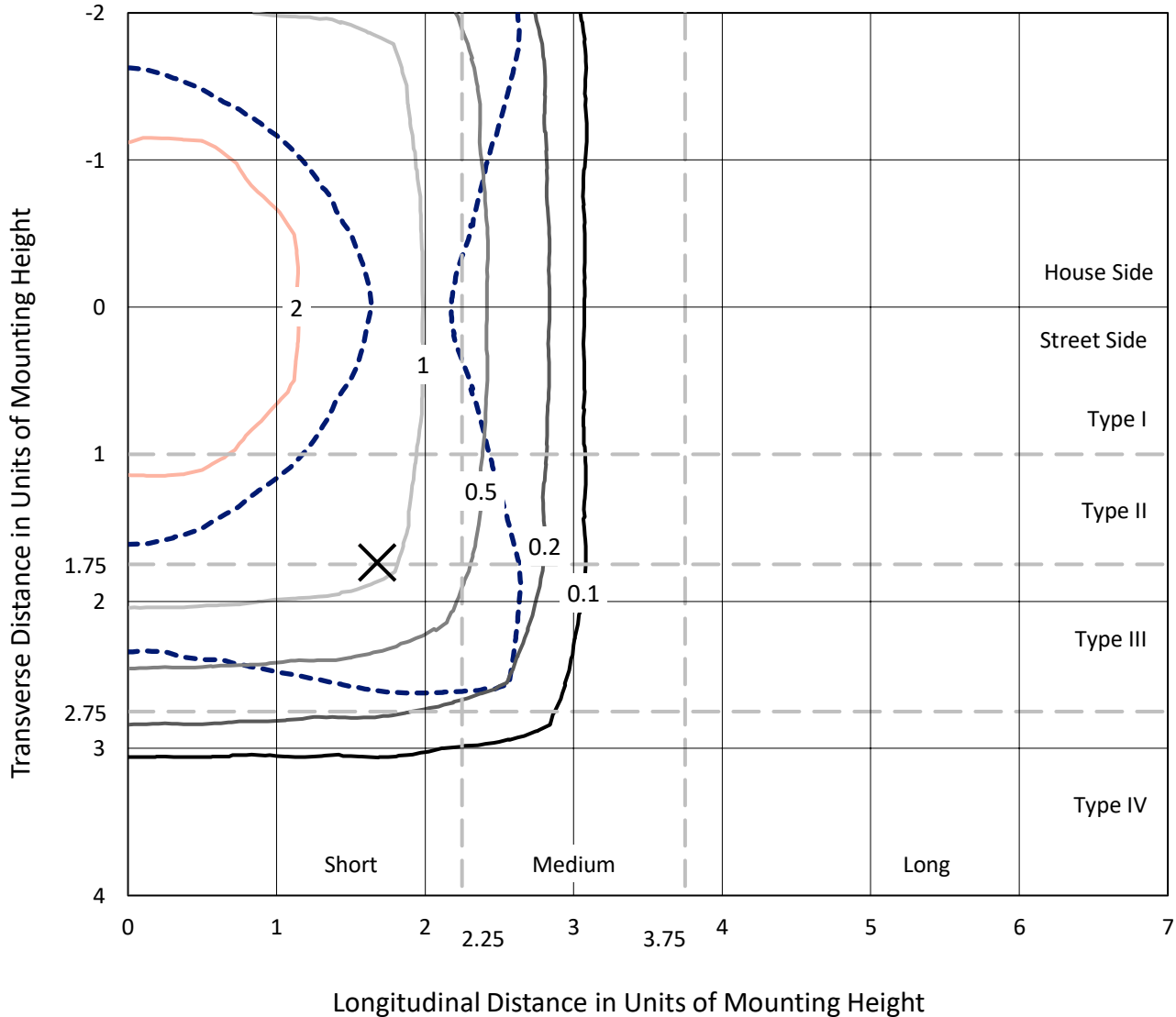
Lumens per Lamp: N/A
Luminaire Lumens: 33327.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

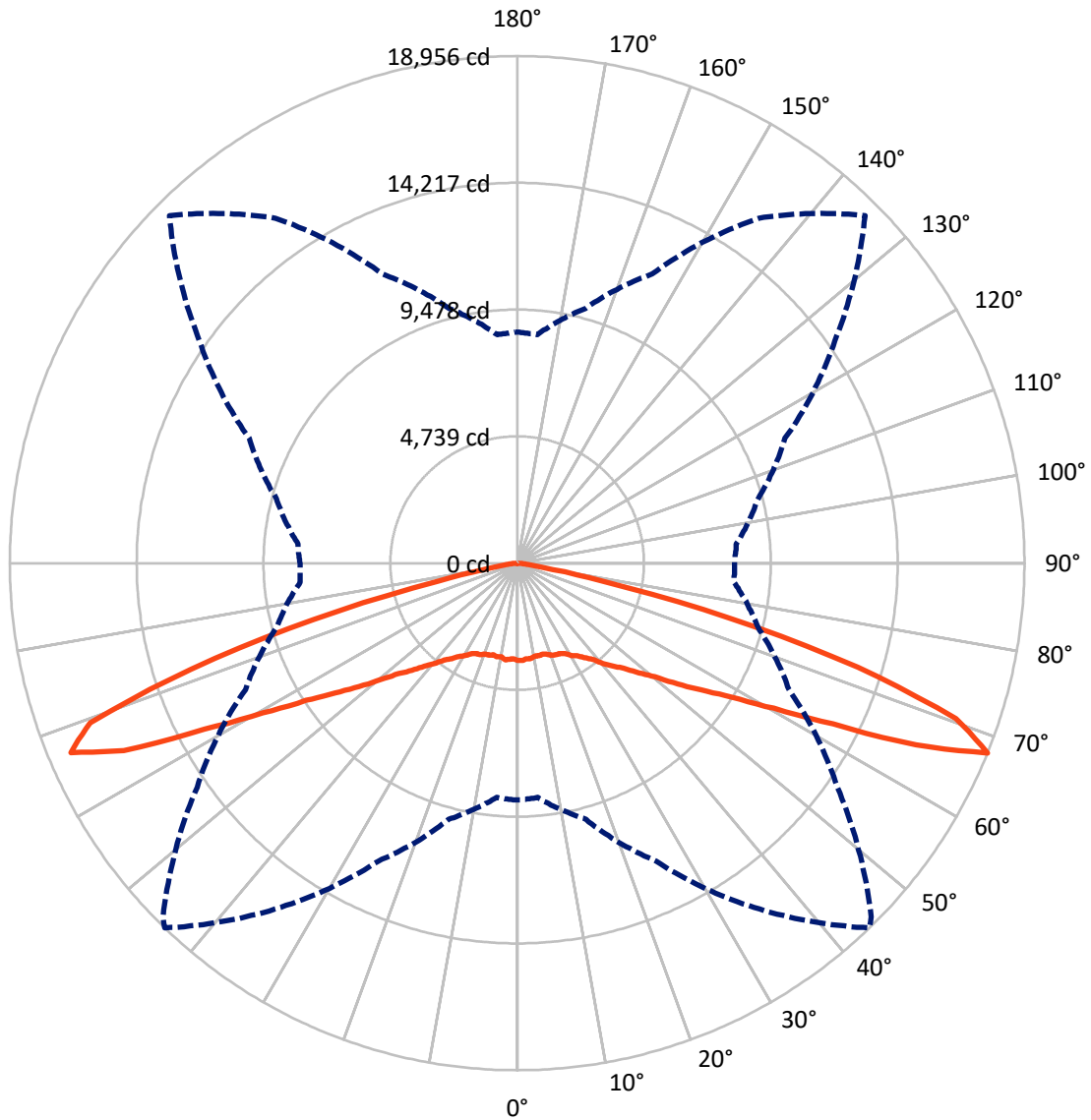
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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
House Side	Lumens	16621.2	0.0	16621.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	16706.5	0.0	16706.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	33327.7	0.0	33327.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.0
10°-20°	1006.4	3.0
20°-30°	1711.5	5.1
30°-40°	2713.7	8.1
40°-50°	4424.9	13.3
50°-60°	7557.1	22.7
60°-70°	11494.2	34.5
70°-80°	3874.3	11.6
80°-90°	201.1	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°	33327.7	100.0
0°-180°	33327.7	100.0

Coefficient of Utilization

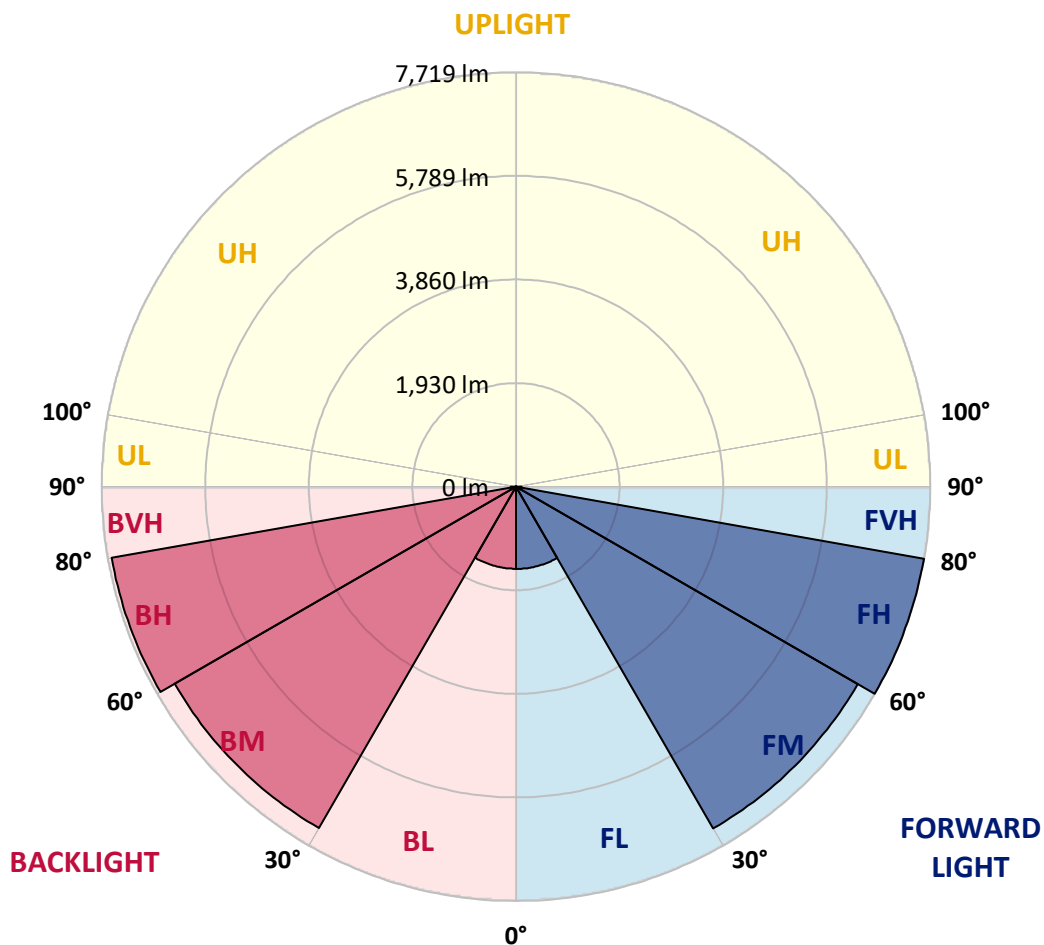


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.8	4.6			
FM (30°-60°)	7351.8	22.1			
FH (60°-80°)	7719.1	23.2			G4/12000
FVH (80°-90°)	102.9	0.3			G2/225
BL (0°-30°)	1529.7	4.6	B3/2500		
BM (30°-60°)	7343.8	22.0	B4/8500		
BH (60°-80°)	7649.4	23.0	B5		G4/12000
BVH (80°-90°)	98.2	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-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5
2.5°	3556.8	3598.6	3629.1	3625.3	3636.7	3648.1	3632.9	3655.7	3640.5	3667.1	3682.3
5°	3625.3	3613.9	3617.7	3594.8	3648.1	3587.2	3587.2	3617.7	3655.7	3610.0	3636.7
7.5°	3583.4	3575.8	3556.8	3591.0	3602.4	3602.4	3632.9	3575.8	3640.5	3655.7	3659.5
10°	3537.8	3495.9	3553.0	3587.2	3594.8	3534.0	3560.6	3575.8	3556.8	3575.8	3587.2
12.5°	3499.7	3522.6	3522.6	3522.6	3511.1	3553.0	3579.6	3575.8	3537.8	3572.0	3511.1
15°	3495.9	3484.5	3518.7	3549.2	3530.2	3537.8	3549.2	3583.4	3511.1	3526.4	3526.4
17.5°	3492.1	3507.3	3518.7	3514.9	3579.6	3579.6	3568.2	3545.4	3602.4	3572.0	3530.2
20°	3507.3	3495.9	3526.4	3537.8	3583.4	3674.7	3640.5	3621.5	3591.0	3553.0	3553.0
22.5°	3526.4	3518.7	3560.6	3610.0	3697.5	3720.4	3716.6	3693.7	3640.5	3594.8	3587.2
25°	3594.8	3526.4	3572.0	3667.1	3697.5	3743.2	3773.6	3743.2	3670.9	3682.3	3613.9
27.5°	3697.5	3686.1	3747.0	3811.7	3785.0	3826.9	3800.2	3823.1	3826.9	3769.8	3701.3
30°	3819.3	3785.0	3823.1	3948.6	3960.0	4005.7	3960.0	3899.2	3918.2	3868.7	3834.5
32.5°	3994.3	3982.8	4055.1	4138.8	4154.0	4131.2	4108.4	4142.6	4062.7	4024.7	3963.8
35°	4108.4	4157.8	4245.3	4310.0	4359.4	4336.6	4348.0	4313.8	4332.8	4252.9	4226.3
37.5°	4446.9	4427.9	4446.9	4557.3	4568.7	4557.3	4568.7	4606.7	4580.1	4511.6	4443.1
40°	4766.5	4736.0	4781.7	4907.2	4899.6	4937.7	4861.6	4903.4	4903.4	4774.1	4747.5
42.5°	5006.1	5108.8	5162.1	5264.8	5302.9	5268.6	5253.4	5261.0	5344.7	5192.5	5135.5
45°	5500.7	5496.9	5656.6	5713.7	5607.2	5599.6	5569.1	5660.4	5717.5	5630.0	5607.2
47.5°	6037.0	6063.7	6155.0	6177.8	6242.5	6124.5	6124.5	6135.9	6337.6	6132.1	6025.6
50°	6520.1	6554.4	6737.0	6915.8	6794.0	6668.5	6718.0	6778.8	6889.1	6695.1	6603.8
52.5°	7106.0	7292.4	7414.1	7509.2	7596.7	7509.2	7395.1	7463.6	7680.4	7421.7	7307.6
55°	7950.5	8098.8	8213.0	8387.9	8460.2	8342.3	8330.9	8323.3	8445.0	8171.1	8015.1
57.5°	8893.9	8833.0	9015.6	9285.7	9548.2	9434.1	9399.8	9407.4	9437.9	9049.8	8931.9
60°	10065.5	10134.0	10350.8	10586.7	10864.4	11024.1	10799.7	10670.4	10697.0	10168.2	9985.6
62.5°	10735.0	10887.2	11377.9	12188.2	12747.4	13245.7	13280.0	12439.3	11876.3	10849.2	10073.1
65°	10411.7	10388.9	11313.3	12812.1	14930.9	16380.3	16163.4	14124.5	12157.8	10525.8	9483.5
67.5°	8855.8	8795.0	9913.4	12290.9	15790.6	18955.6	18708.3	14600.0	11206.7	9312.3	8133.1
70°	5706.1	5690.9	6904.4	9369.4	14097.8	17403.5	17494.8	13260.9	9122.1	6820.7	5652.8
72.5°	2073.2	2198.7	2902.5	5036.6	9574.8	13314.2	13371.2	9818.3	5245.8	3153.6	2324.3
75°	764.6	787.4	916.8	1635.7	4363.2	8174.9	8387.9	4762.7	1864.0	1027.1	836.9
77.5°	441.3	445.1	490.7	608.6	1293.4	3191.6	3320.9	1445.5	722.8	547.8	505.9
80°	300.5	296.7	346.2	395.6	517.4	905.4	962.4	604.8	456.5	380.4	319.5
82.5°	175.0	186.4	254.9	281.5	315.7	399.4	407.0	376.6	342.4	281.5	209.2
85°	106.5	87.5	140.7	156.0	182.6	178.8	178.8	205.4	220.6	197.8	117.9
87.5°	26.6	26.6	34.2	38.0	49.5	38.0	41.8	79.9	106.5	98.9	60.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5	3640.5
2.5°	3648.1	3636.7	3644.3	3686.1	3659.5	3579.6	3598.6	3640.5	3606.2	3587.2	3583.4
5°	3632.9	3655.7	3629.1	3636.7	3663.3	3598.6	3610.0	3663.3	3640.5	3648.1	3606.2
7.5°	3636.7	3648.1	3625.3	3591.0	3591.0	3644.3	3613.9	3621.5	3587.2	3644.3	3568.2
10°	3613.9	3583.4	3556.8	3575.8	3568.2	3553.0	3541.6	3564.4	3530.2	3579.6	3526.4
12.5°	3545.4	3553.0	3545.4	3537.8	3553.0	3591.0	3530.2	3537.8	3484.5	3492.1	3518.7
15°	3518.7	3541.6	3534.0	3575.8	3594.8	3537.8	3583.4	3537.8	3495.9	3473.1	3514.9
17.5°	3530.2	3564.4	3553.0	3583.4	3549.2	3591.0	3598.6	3579.6	3530.2	3511.1	3530.2
20°	3541.6	3530.2	3545.4	3598.6	3648.1	3606.2	3606.2	3594.8	3549.2	3522.6	3522.6
22.5°	3568.2	3549.2	3572.0	3613.9	3629.1	3693.7	3636.7	3610.0	3534.0	3465.5	3530.2
25°	3621.5	3632.9	3648.1	3632.9	3716.6	3709.0	3701.3	3682.3	3564.4	3568.2	3556.8
27.5°	3724.2	3659.5	3678.5	3769.8	3781.2	3811.7	3773.6	3807.9	3682.3	3686.1	3610.0
30°	3849.7	3781.2	3842.1	3922.0	3918.2	3975.2	3956.2	3963.8	3876.3	3826.9	3724.2
32.5°	3986.6	3979.0	4017.1	4066.5	4085.6	4116.0	4112.2	4112.2	4058.9	3929.6	3948.6
35°	4138.8	4192.1	4237.7	4291.0	4298.6	4336.6	4283.4	4291.0	4237.7	4142.6	4173.0
37.5°	4439.3	4435.5	4485.0	4549.6	4557.3	4526.8	4568.7	4549.6	4477.4	4412.7	4363.2
40°	4789.3	4713.2	4758.9	4911.0	4922.4	4869.2	4865.4	4861.6	4808.3	4667.6	4637.1
42.5°	5093.6	5192.5	5184.9	5234.4	5200.1	5173.5	5268.6	5215.4	5173.5	5025.2	4998.5
45°	5485.4	5515.9	5614.8	5774.6	5611.0	5611.0	5675.6	5633.8	5611.0	5500.7	5398.0
47.5°	5972.4	5999.0	6196.8	6208.2	6101.7	6029.4	6231.0	6238.6	6143.5	6059.9	5934.3
50°	6543.0	6554.4	6733.2	6915.8	6797.8	6660.9	6866.3	6946.2	6733.2	6619.1	6463.1
52.5°	7170.6	7136.4	7284.8	7627.1	7513.0	7471.2	7691.8	7710.8	7421.7	7242.9	7284.8
55°	7893.4	7847.8	8251.0	8483.0	8410.8	8334.7	8433.6	8479.2	8247.2	7954.3	8057.0
57.5°	8829.2	8852.0	9053.6	9281.9	9399.8	9418.8	9464.5	9418.8	9183.0	8886.3	8791.2
60°	9765.0	9833.5	10225.3	10655.2	10693.2	11028.0	10967.1	10738.8	10404.1	9981.8	10000.9
62.5°	10111.2	10054.1	10685.6	11735.5	12629.5	13241.9	12971.8	12161.6	11385.5	10617.1	10674.2
65°	9415.0	9555.8	10415.5	12058.8	13998.9	16422.1	14984.2	12743.6	11176.3	10183.5	10073.1
67.5°	8114.0	8220.6	9312.3	11047.0	14489.6	18377.4	15745.0	11921.9	9856.3	8570.5	8639.0
70°	5652.8	5706.1	6775.0	9049.8	13139.2	17342.7	14204.3	9156.4	6805.5	5424.6	5500.7
72.5°	2274.8	2404.2	3107.9	5451.2	9700.3	13177.2	9563.4	4804.5	2822.6	2099.8	1905.8
75°	840.7	844.5	992.9	1875.4	4606.7	8281.4	4313.8	1544.4	901.6	738.0	703.7
77.5°	486.9	483.1	517.4	677.1	1335.2	3233.4	1224.9	604.8	490.7	441.3	422.2
80°	304.3	300.5	353.8	448.9	585.8	886.3	517.4	376.6	331.0	285.3	285.3
82.5°	194.0	197.8	277.7	331.0	357.6	391.8	300.5	266.3	247.3	163.6	159.8
85°	125.5	114.1	194.0	220.6	197.8	175.0	167.4	140.7	129.3	79.9	87.5
87.5°	57.1	60.9	98.9	110.3	72.3	41.8	41.8	30.4	30.4	19.0	19.0
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)