

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: P193364

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5MQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33478 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 382
Input Voltage (V): NR
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: 28.75 FT

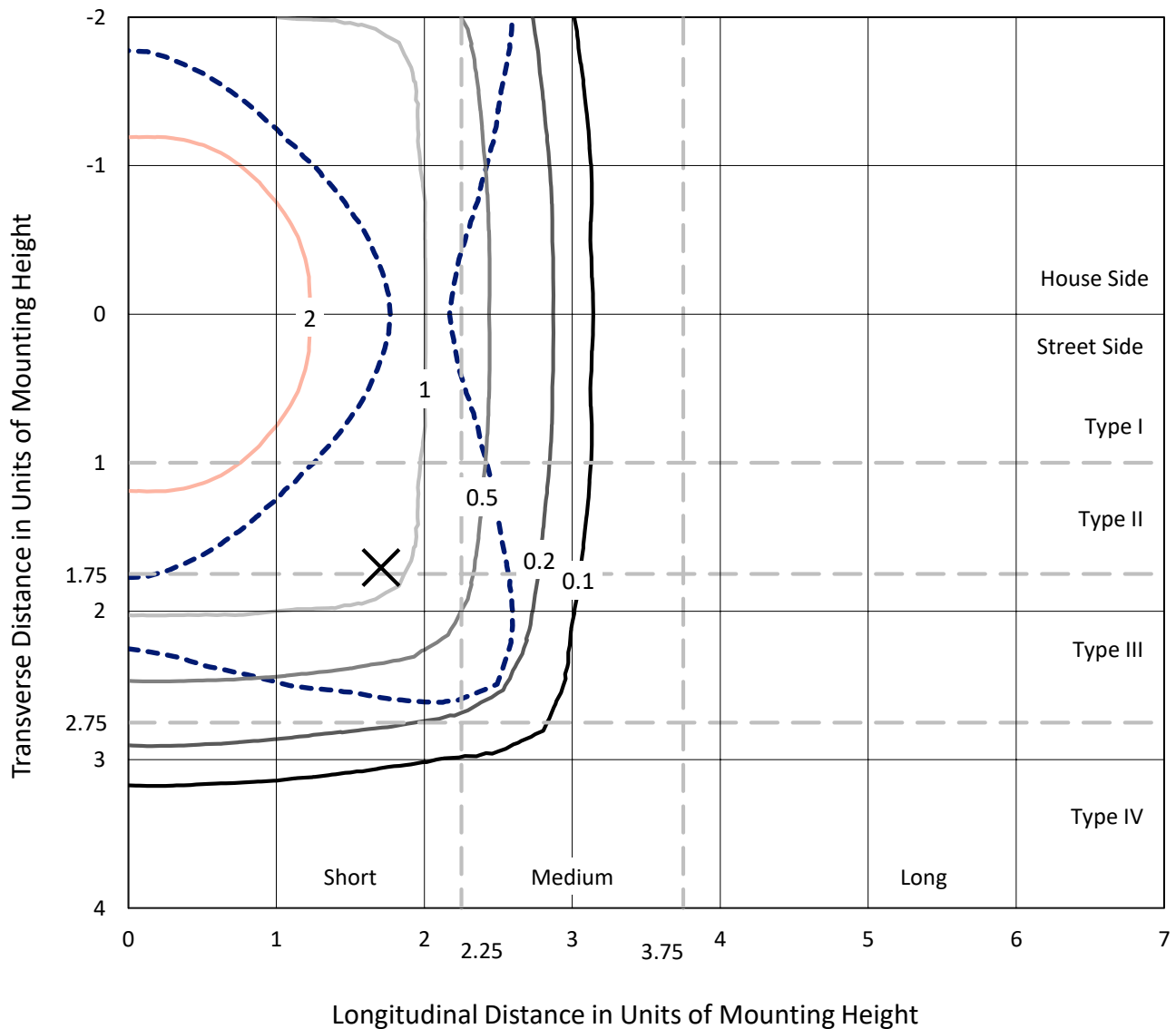


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

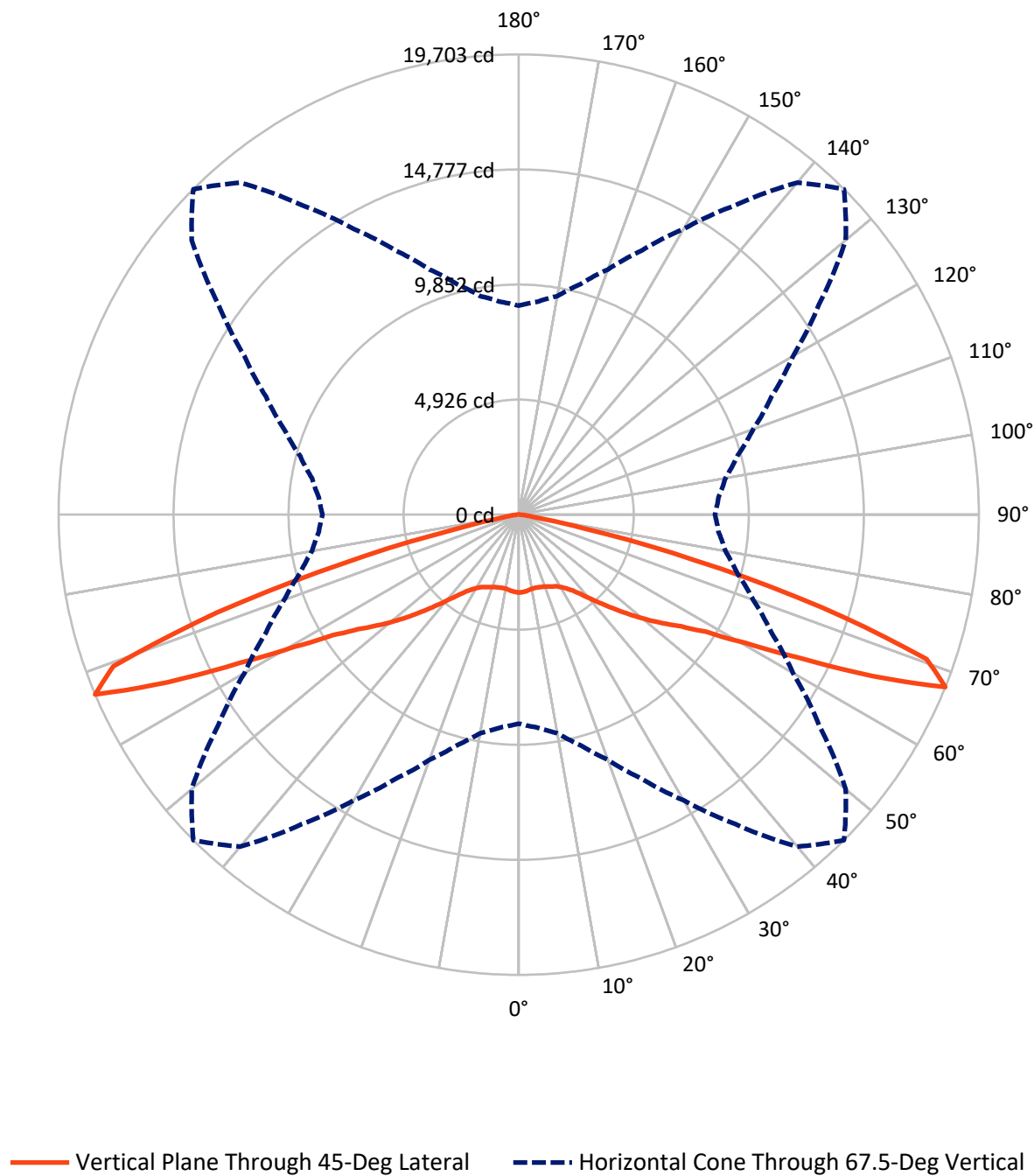


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16739.0	0.0	16739.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16739.0	0.0	16739.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33478.0	0.0	33478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	0.9
10°-20°	906.1	2.7
20°-30°	1540.4	4.6
30°-40°	2518.0	7.5
40°-50°	4495.1	13.4
50°-60°	7578.9	22.6
60°-70°	11761.3	35.1
70°-80°	4132.4	12.3
80°-90°	233.5	0.7
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°	33478.0	100.0
0°-180°	33478.0	100.0

Coefficient of Utilization



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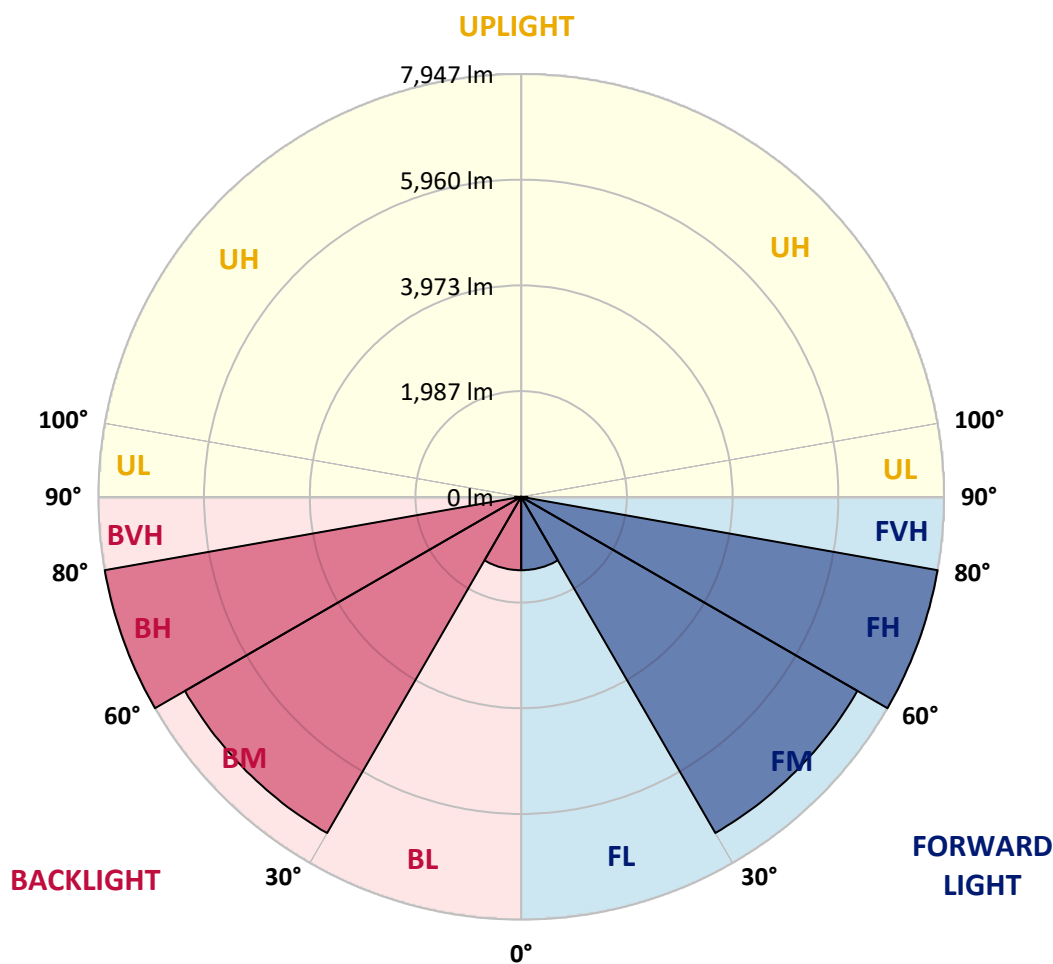
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.4	4.1			
FM	(30°-60°)	7296.0	21.8			
FH	(60°-80°)	7946.9	23.7			G4/12000
FVH	(80°-90°)	116.8	0.3			G2/225
BL	(0°-30°)	1379.4	4.1	B3/2500		
BM	(30°-60°)	7296.0	21.8	B4/8500		
BH	(60°-80°)	7946.9	23.7	B5		G4/12000
BVH	(80°-90°)	116.8	0.3			G2/225
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2
2.5°	3323.9	3327.0	3327.0	3327.0	3325.4	3325.4	3322.4	3325.4	3323.9	3319.3	3320.8
5°	3296.2	3299.3	3299.3	3297.7	3302.4	3300.8	3296.2	3299.3	3297.7	3294.7	3296.2
7.5°	3256.2	3260.8	3260.8	3259.2	3263.9	3262.3	3259.2	3260.8	3260.8	3256.2	3256.2
10°	3211.5	3214.6	3214.6	3213.1	3220.8	3220.8	3219.2	3223.8	3225.4	3220.8	3217.7
12.5°	3170.0	3174.6	3174.6	3180.7	3188.4	3191.5	3199.2	3205.4	3211.5	3210.0	3203.8
15°	3145.3	3148.4	3154.6	3162.3	3174.6	3185.3	3197.7	3211.5	3223.8	3226.9	3217.7
17.5°	3129.9	3134.5	3143.8	3154.6	3171.5	3190.0	3208.4	3226.9	3243.9	3250.0	3239.2
20°	3125.3	3128.4	3137.6	3156.1	3179.2	3206.9	3233.1	3254.6	3277.7	3285.4	3277.7
22.5°	3134.5	3140.7	3151.5	3173.0	3203.8	3239.2	3270.0	3299.3	3328.5	3342.4	3331.6
25°	3176.1	3182.3	3196.1	3223.8	3257.7	3294.7	3330.1	3363.9	3390.1	3404.0	3396.3
27.5°	3253.1	3260.8	3277.7	3305.4	3342.4	3382.4	3420.9	3448.6	3470.2	3474.8	3465.5
30°	3368.6	3385.5	3405.5	3436.3	3479.4	3513.3	3551.8	3576.4	3602.6	3602.6	3594.9
32.5°	3548.7	3565.6	3587.2	3616.4	3650.3	3687.2	3721.1	3742.7	3770.4	3771.9	3753.4
35°	3818.1	3825.8	3844.3	3862.8	3893.5	3925.9	3955.1	3969.0	3992.1	3993.6	3976.7
37.5°	4173.7	4175.3	4187.6	4193.8	4221.5	4256.9	4284.6	4293.8	4315.4	4312.3	4295.4
40°	4587.9	4595.6	4600.2	4609.4	4638.7	4672.6	4701.8	4706.4	4729.5	4724.9	4703.4
42.5°	5066.7	5069.8	5095.9	5109.8	5137.5	5154.4	5191.4	5196.0	5223.7	5211.4	5186.8
45°	5604.0	5631.7	5656.3	5684.1	5713.3	5733.3	5762.6	5756.4	5774.9	5756.4	5742.6
47.5°	6169.0	6189.0	6244.5	6287.6	6335.3	6352.2	6393.8	6375.3	6393.8	6367.6	6363.0
50°	6791.0	6826.4	6874.1	6923.4	6974.2	7001.9	7055.8	7032.7	7057.3	7032.7	7018.8
52.5°	7403.7	7413.0	7517.7	7590.0	7660.8	7693.2	7725.5	7714.7	7716.3	7714.7	7700.9
55°	7985.7	8007.2	8111.9	8210.5	8333.6	8424.5	8479.9	8473.7	8459.9	8446.0	8422.9
57.5°	8641.5	8663.1	8783.2	8904.8	9044.9	9174.2	9286.6	9402.1	9446.7	9459.0	9408.2
60°	9528.3	9526.8	9686.9	9834.7	10034.8	10227.3	10473.6	10724.6	11012.5	11146.4	10969.4
62.5°	10430.5	10467.5	10698.4	10960.1	11372.7	11774.5	12228.7	12675.2	13130.9	13501.9	13107.8
65°	10322.7	10464.4	10807.7	11400.4	12162.5	13067.8	14046.9	15083.1	16019.1	16662.6	15940.6
67.5°	8946.4	9148.1	9497.5	10218.1	11171.0	12476.6	14120.8	16170.0	18551.7	19703.3	18276.1
70°	6484.6	6712.5	7078.9	7782.5	8726.2	9967.1	11753.0	14213.2	17366.2	18527.1	16955.2
72.5°	3226.9	3350.1	3576.4	4024.4	4738.8	5745.6	7365.2	9730.0	12519.7	13585.1	12148.7
75°	1096.2	1153.1	1191.6	1337.9	1564.2	1959.9	2765.0	4253.8	6489.2	7779.4	6396.9
77.5°	632.8	634.3	660.5	686.6	725.1	768.2	876.0	1150.1	1989.1	2825.1	2058.4
80°	409.5	408.0	429.5	449.6	475.7	497.3	503.4	532.7	614.3	728.2	651.2
82.5°	212.5	238.6	286.4	312.5	361.8	371.0	358.7	347.9	368.0	381.8	391.0
85°	117.0	101.6	152.4	197.1	218.6	221.7	221.7	209.4	217.1	212.5	230.9
87.5°	53.9	49.3	60.0	97.0	103.2	87.8	92.4	81.6	58.5	57.0	64.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2
2.5°	3320.8	3322.4	3322.4	3327.0	3328.5	3331.6	3334.7	3336.2
5°	3294.7	3299.3	3296.2	3300.8	3300.8	3303.9	3303.9	3305.4
7.5°	3256.2	3260.8	3260.8	3260.8	3259.2	3263.9	3263.9	3263.9
10°	3216.1	3219.2	3217.7	3214.6	3211.5	3216.1	3214.6	3213.1
12.5°	3203.8	3196.1	3190.0	3186.9	3180.7	3182.3	3177.6	3177.6
15°	3211.5	3197.7	3186.9	3182.3	3176.1	3173.0	3170.0	3171.5
17.5°	3231.5	3214.6	3200.7	3193.0	3185.3	3180.7	3174.6	3176.1
20°	3266.9	3246.9	3226.9	3211.5	3197.7	3190.0	3185.3	3183.8
22.5°	3319.3	3290.0	3260.8	3237.7	3219.2	3208.4	3203.8	3200.7
25°	3379.3	3347.0	3313.1	3287.0	3268.5	3254.6	3245.4	3245.4
27.5°	3454.8	3428.6	3397.8	3367.0	3350.1	3336.2	3330.1	3327.0
30°	3581.0	3556.4	3531.7	3502.5	3480.9	3467.1	3456.3	3447.1
32.5°	3742.7	3722.7	3702.6	3681.1	3661.1	3642.6	3625.7	3618.0
35°	3970.5	3955.1	3941.3	3916.6	3908.9	3898.2	3888.9	3881.2
37.5°	4284.6	4278.4	4278.4	4252.3	4246.1	4241.5	4232.2	4233.8
40°	4697.2	4703.4	4695.7	4686.4	4681.8	4669.5	4669.5	4680.3
42.5°	5185.2	5189.9	5206.8	5191.4	5208.3	5192.9	5183.7	5191.4
45°	5751.8	5768.7	5802.6	5787.2	5798.0	5771.8	5739.5	5741.0
47.5°	6387.6	6403.0	6416.9	6406.1	6407.6	6364.5	6321.4	6310.7
50°	7048.1	7054.3	7062.0	7046.6	7049.6	7001.9	6952.6	6954.2
52.5°	7700.9	7730.1	7760.9	7719.3	7710.1	7656.2	7586.9	7559.2
55°	8447.6	8489.1	8453.7	8381.4	8309.0	8236.6	8145.8	8130.4
57.5°	9368.2	9297.4	9186.5	9049.5	8949.5	8847.8	8755.5	8717.0
60°	10649.1	10382.8	10182.6	9979.4	9851.6	9726.9	9605.3	9586.8
62.5°	12459.6	11999.3	11600.6	11180.3	10837.0	10569.1	10355.1	10295.0
65°	14729.0	13640.5	12696.7	11816.1	11051.0	10473.6	10110.3	9950.2
67.5°	15705.0	13555.8	11937.7	10687.6	9686.9	8987.9	8595.4	8399.8
70°	13800.6	11241.9	9482.1	8230.5	7319.1	6573.9	6218.3	6008.9
72.5°	9494.5	7151.3	5654.8	4615.6	3887.4	3263.9	3017.5	2999.1
75°	4263.0	2823.6	1946.0	1499.5	1262.4	1097.7	1046.9	1008.4
77.5°	1193.2	882.2	786.7	735.9	686.6	629.7	608.1	612.7
80°	580.4	548.1	526.5	494.2	449.6	401.8	380.3	389.5
82.5°	384.9	380.3	394.1	371.0	306.4	260.2	218.6	200.1
85°	234.0	237.1	241.7	243.3	206.3	144.7	98.5	110.8
87.5°	92.4	106.2	115.5	120.1	112.4	69.3	55.4	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)