

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: McGRAW-EDISON

Report Number: P532744

Luminaire Tested: **GALN-SA8A-760-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-760-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32237 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

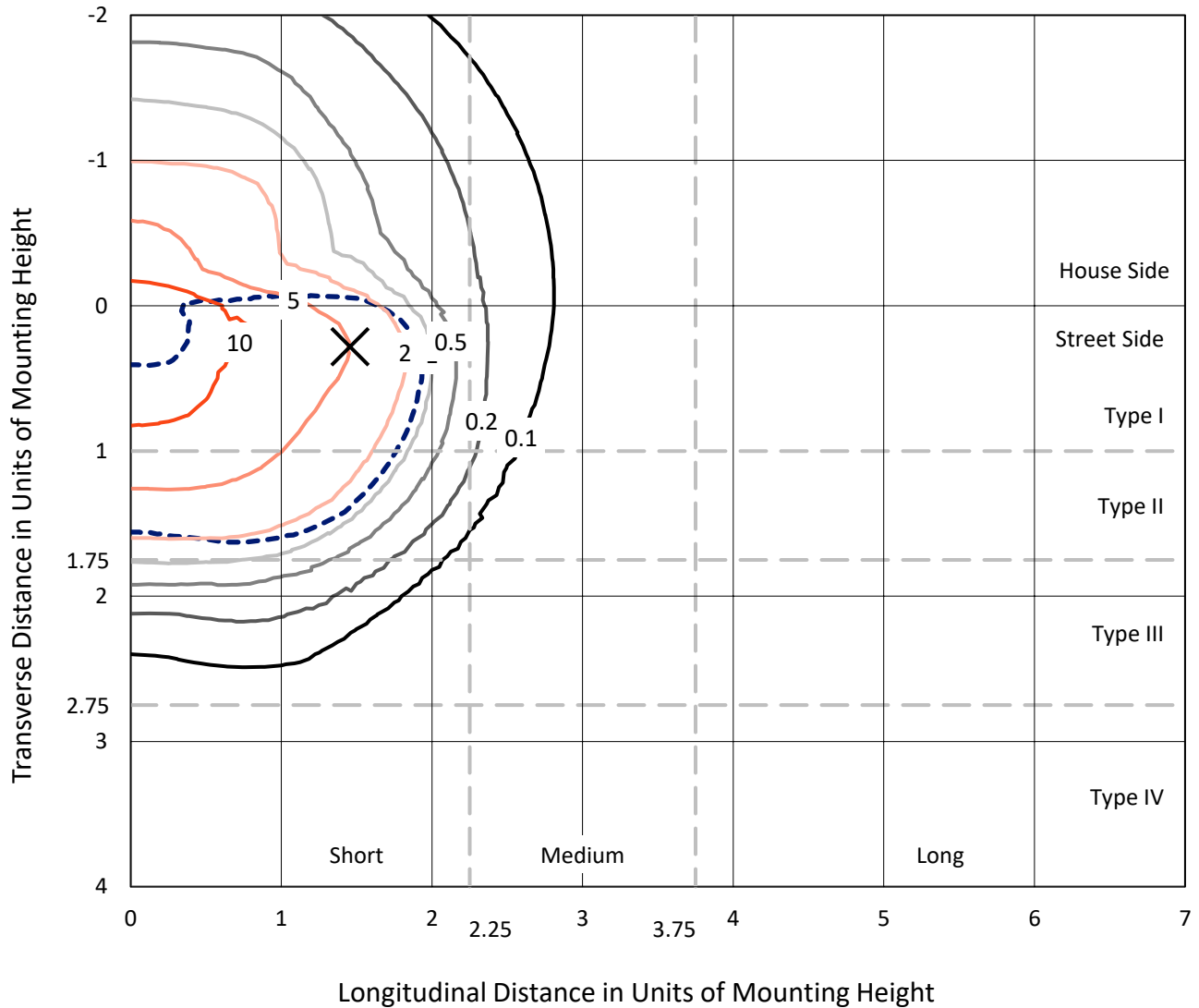
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

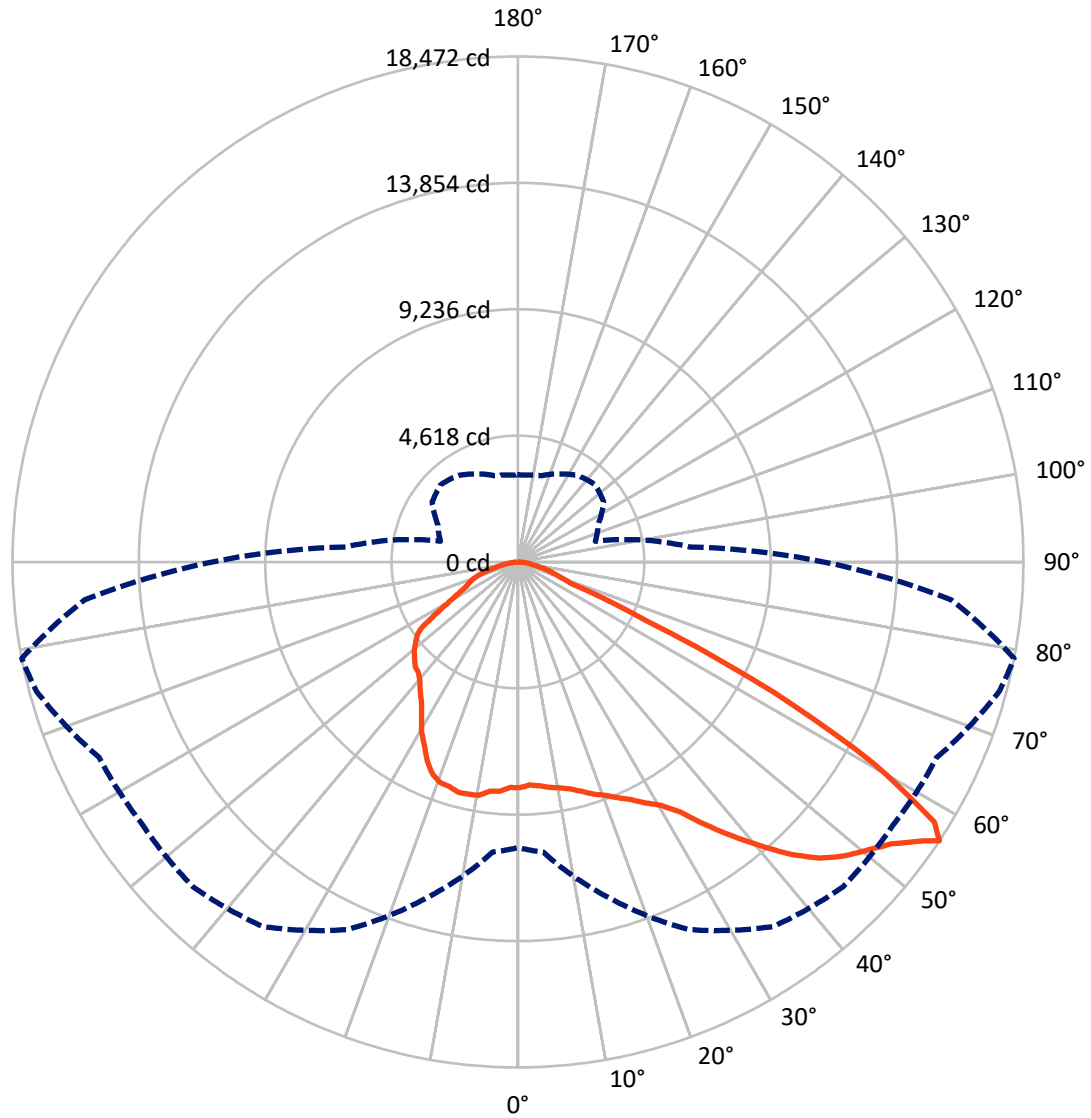
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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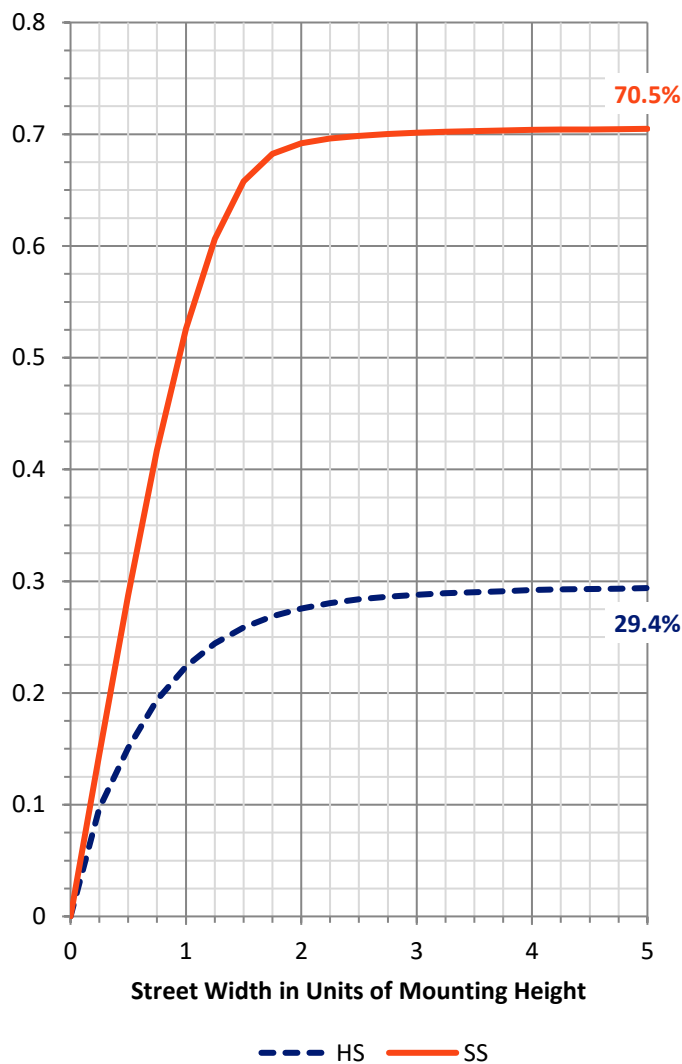
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9520.3	0.0	9520.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22716.7	0.0	22716.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	32237.0	0.0	32237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.9	2.3
10°-20°	2052.3	6.4
20°-30°	3511.1	10.9
30°-40°	5381.2	16.7
40°-50°	7272.7	22.6
50°-60°	8352.9	25.9
60°-70°	3807.5	11.8
70°-80°	938.7	2.9
80°-90°	170.6	0.5
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°	32237.0	100.0
0°-180°	32237.0	100.0

Coefficient of Utilization



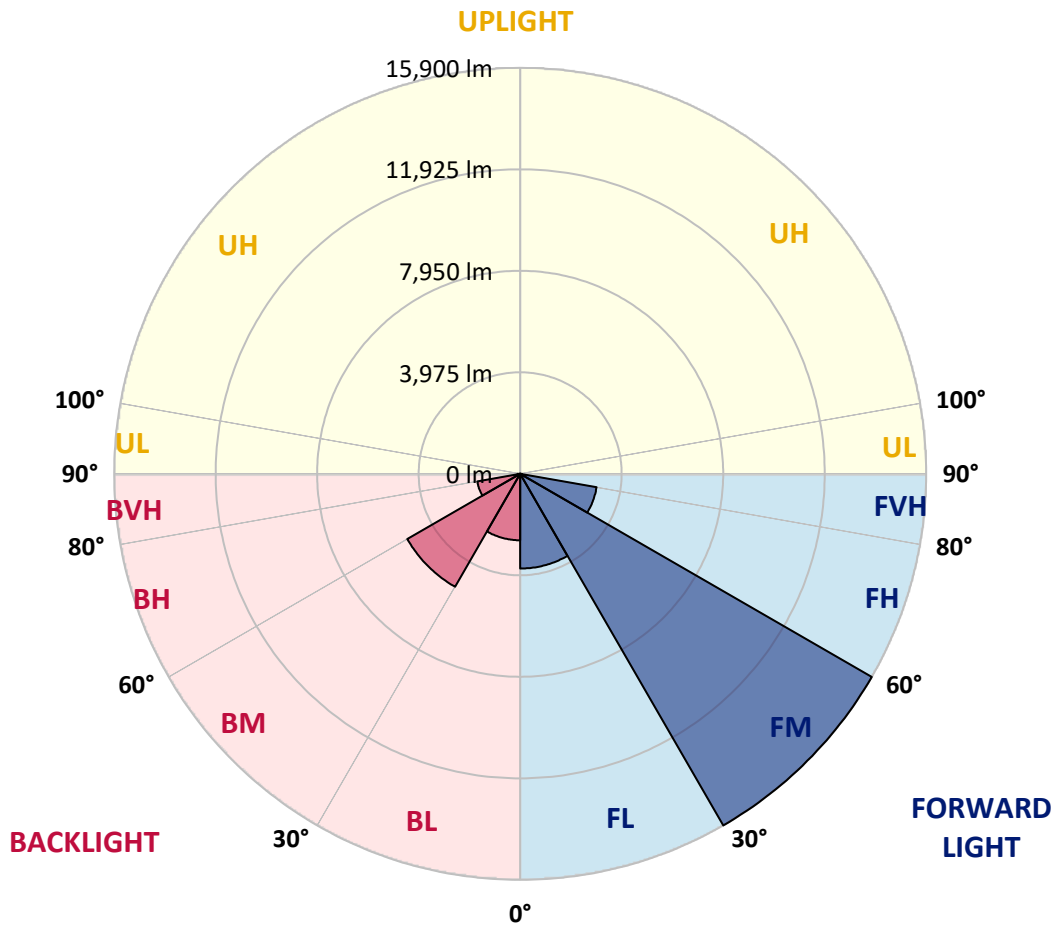
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.1	11.5			
FM (30°-60°)	15900.2	49.3			
FH (60°-80°)	3039.2	9.4			G2/5000
FVH (80°-90°)	68.1	0.2			G1/100
BL (0°-30°)	2604.2	8.1	B4/5000		
BM (30°-60°)	5106.6	15.8	B4/8500		
BH (60°-80°)	1707.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	102.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2
2.5°	7846.6	7826.5	7874.7	7910.9	7955.0	8011.2	8039.4	8055.4	8196.0	8159.8	8268.3
5°	7677.9	7625.7	7661.9	7690.0	7766.3	7834.6	7910.9	8031.3	8159.8	8216.0	8348.6
7.5°	7529.4	7501.3	7493.2	7513.3	7617.7	7706.1	7838.6	8015.3	8224.1	8316.4	8392.7
10°	7284.4	7244.3	7304.5	7437.0	7465.1	7649.8	7802.4	8055.4	8236.1	8396.8	8621.6
12.5°	7176.0	7135.8	7147.9	7224.2	7420.9	7597.6	7778.3	8063.5	8444.9	8509.2	8810.4
15°	7348.7	7308.5	7320.6	7300.5	7489.2	7581.6	7866.7	8224.1	8589.5	8697.9	9019.2
17.5°	7742.2	7746.2	7694.0	7649.8	7605.7	7802.4	7999.2	8320.5	8645.7	8918.8	9159.7
20°	8493.1	8360.6	8256.2	8007.2	7939.0	8023.3	8272.3	8581.5	8874.6	9099.5	9372.6
22.5°	9071.4	9083.4	8934.9	8525.3	8376.7	8412.8	8625.6	8878.6	9199.9	9360.5	9673.7
25°	9910.7	9826.3	9665.7	9340.4	9007.1	9035.2	9191.9	9420.7	9509.1	9621.5	9962.9
27.5°	10677.6	10701.7	10384.5	10079.3	9665.7	9585.4	9866.5	9906.6	9758.1	9970.9	10087.3
30°	11456.7	11436.6	11227.8	10870.4	10464.8	10480.9	10605.4	10408.6	10203.8	10320.3	10400.6
32.5°	12263.8	12034.9	12026.9	11705.7	11396.5	11247.9	11095.3	11191.7	10874.4	10898.5	10822.2
35°	12910.4	12942.5	12757.8	12528.9	12376.3	12115.3	11697.6	11870.3	11810.1	11782.0	11452.7
37.5°	13380.2	13255.7	13348.1	13271.8	13127.2	12801.9	12368.2	12532.9	12561.0	12697.5	12316.0
40°	13765.7	13713.5	13958.4	13998.6	13898.2	13195.5	12416.4	12906.3	13328.0	13625.1	13171.4
42.5°	13950.4	14062.9	14319.9	14629.1	14404.2	13653.3	12665.4	13191.5	14131.1	14601.0	13982.5
45°	14199.4	14054.8	14436.3	15002.5	15006.5	14038.8	12906.3	13577.0	14757.6	15440.2	14536.7
47.5°	13946.4	14018.7	14412.2	15131.0	15315.7	14444.3	13556.9	14123.1	15448.3	16054.6	15050.7
50°	13380.2	13524.8	14243.6	14990.5	15548.6	14874.0	14303.8	14713.4	16086.7	16548.5	15135.0
52.5°	12789.9	12870.2	13994.6	15098.9	15653.1	15428.2	15303.7	15528.6	16865.8	17106.7	15239.4
55°	11183.6	11565.1	13171.4	15050.7	16163.0	16428.1	16331.7	16661.0	17749.2	17990.2	15809.7
56°	10440.7	10641.5	12677.4	14825.8	16263.4	16793.5	16745.3	16893.9	18219.1	18472.0	15898.0
57.5°	9067.4	9083.4	10810.2	13829.9	15886.0	16901.9	16853.7	16970.2	18126.7	17954.0	15123.0
60°	5674.1	5923.1	7356.7	10637.5	13508.7	15681.2	15954.2	15018.6	15283.6	14918.2	11765.9
62.5°	2939.5	2903.3	3855.0	6220.3	8967.0	11227.8	11480.8	11436.6	11027.0	10492.9	7686.0
65°	1465.7	1473.7	2015.9	3080.0	4593.9	5878.9	6585.7	6662.0	5573.7	5128.0	3646.2
67.5°	1064.2	1104.3	1449.7	1883.3	2164.4	2421.4	2967.6	2911.4	2204.6	2096.2	1943.6
70°	827.2	863.4	1176.6	1437.6	1305.1	1305.1	1421.5	1469.7	1570.1	1614.3	1666.5
72.5°	602.3	630.5	899.5	991.9	855.3	919.6	1064.2	1176.6	1281.0	1297.1	1357.3
75°	413.6	437.7	590.3	546.1	514.0	634.5	779.0	883.4	959.7	999.9	1036.0
77.5°	269.0	277.1	337.3	285.1	329.3	409.6	506.0	594.3	670.6	702.7	710.8
80°	120.5	132.5	144.6	180.7	228.9	293.1	361.4	433.7	481.9	493.9	518.0
82.5°	68.3	68.3	88.3	128.5	168.7	212.8	261.0	313.2	369.4	381.5	377.5
85°	36.1	36.1	52.2	76.3	104.4	124.5	120.5	124.5	132.5	152.6	148.6
87.5°	12.0	12.0	16.1	16.1	20.1	24.1	20.1	28.1	36.1	36.1	36.1
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°	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2	8248.2
2.5°	8236.1	8272.3	8224.1	8328.5	8328.5	8308.4	8208.0	8240.1	8264.2	8264.2	8284.3
5°	8392.7	8380.7	8412.8	8288.3	8212.0	8183.9	8019.3	7939.0	7870.7	7866.7	7806.4
7.5°	8481.1	8449.0	8436.9	8344.5	8007.2	7802.4	7449.1	7244.3	7200.1	7043.5	7103.7
10°	8621.6	8681.9	8621.6	8119.7	7649.8	7180.0	6834.7	6517.4	6392.9	6292.5	6232.3
12.5°	8910.8	8882.6	8533.3	7854.6	7196.1	6637.9	6123.9	5790.6	5666.1	5577.8	5569.7
15°	9155.7	9015.2	8481.1	7437.0	6489.3	5895.0	5473.3	5236.4	5180.2	5188.2	5224.4
17.5°	9240.0	9143.7	8208.0	7003.3	5963.3	5264.5	5067.8	5031.6	5083.8	5144.1	5160.1
20°	9372.6	9220.0	8095.6	6413.0	5312.7	4871.0	4859.0	4987.5	5083.8	5172.2	5184.2
22.5°	9649.6	9264.1	7730.2	5854.8	4867.0	4754.5	4871.0	4979.4	5128.0	5200.3	5136.0
25°	9730.0	9167.8	7216.1	5184.2	4585.9	4682.3	4806.7	4955.3	5059.7	5099.9	5128.0
27.5°	9798.2	9019.2	6521.4	4738.5	4497.5	4678.2	4806.7	4931.2	4987.5	5023.6	5055.7
30°	9991.0	8975.0	5919.1	4441.3	4441.3	4597.9	4762.6	4794.7	4871.0	4915.2	4971.4
32.5°	10087.3	8669.8	5300.7	4252.6	4385.1	4638.1	4650.1	4710.4	4714.4	4750.5	4690.3
35°	10340.3	8453.0	4726.4	4116.1	4409.2	4597.9	4658.2	4622.0	4425.3	4328.9	4349.0
37.5°	10525.1	8344.5	4312.8	4100.0	4413.2	4642.1	4674.2	4401.2	4196.4	4035.7	4075.9
40°	11023.0	8075.5	3999.6	4071.9	4449.4	4690.3	4601.9	4304.8	3935.3	3770.7	3742.6
42.5°	11404.5	7882.7	3802.8	4039.8	4477.5	4758.6	4565.8	4112.0	3734.6	3582.0	3622.1
45°	11846.2	7838.6	3698.4	4047.8	4525.7	4794.7	4521.6	3963.5	3561.9	3501.7	3489.6
47.5°	12002.8	7521.3	3586.0	3979.5	4513.6	4782.7	4373.1	3851.0	3497.6	3505.7	3537.8
50°	11741.8	7196.1	3501.7	3839.0	4433.3	4674.2	4140.1	3702.4	3461.5	3561.9	3618.1
52.5°	11408.5	6862.8	3329.0	3650.2	4268.6	4505.6	4031.7	3694.4	3425.4	3393.2	3405.3
55°	11508.9	6589.7	3088.0	3393.2	4003.6	4192.4	3911.3	3618.1	3337.0	3216.5	3256.7
56°	11183.6	6308.6	2931.4	3232.6	3822.9	3991.6	3851.0	3549.8	3264.7	3184.4	3184.4
57.5°	10264.0	5364.9	2726.6	2975.6	3441.4	3642.2	3734.6	3509.7	3184.4	3043.9	3047.9
60°	7569.5	3814.9	2445.5	2622.2	2851.1	3011.7	3441.4	3397.3	2983.6	2887.3	2851.1
62.5°	4666.2	2786.9	2244.8	2313.0	2429.5	2562.0	3003.7	3076.0	2770.8	2666.4	2642.3
65°	2614.2	2132.3	2092.2	2120.3	2176.5	2244.8	2493.7	2654.4	2445.5	2284.9	2276.9
67.5°	1911.5	1907.4	1939.6	1963.7	1987.8	1987.8	2048.0	2112.2	2084.1	1955.6	1943.6
70°	1698.6	1710.7	1734.8	1738.8	1746.8	1718.7	1670.5	1650.4	1682.6	1602.2	1586.2
72.5°	1401.5	1441.6	1469.7	1473.7	1429.6	1393.4	1329.2	1260.9	1236.8	1220.8	1216.7
75°	1076.2	1104.3	1116.4	1112.3	1096.3	1044.1	967.8	899.5	855.3	807.1	831.2
77.5°	726.8	767.0	787.1	787.1	763.0	682.7	646.5	594.3	550.1	497.9	506.0
80°	510.0	538.1	570.2	566.2	526.1	485.9	433.7	385.5	349.4	309.2	305.2
82.5°	381.5	397.6	413.6	405.6	377.5	337.3	301.2	257.0	216.8	188.7	188.7
85°	136.5	148.6	180.7	188.7	204.8	204.8	172.7	144.6	116.5	96.4	96.4
87.5°	40.2	40.2	44.2	44.2	40.2	44.2	36.1	40.2	44.2	28.1	28.1
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)