

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: P533000

Luminaire Tested: **GALN-SA8B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29682 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

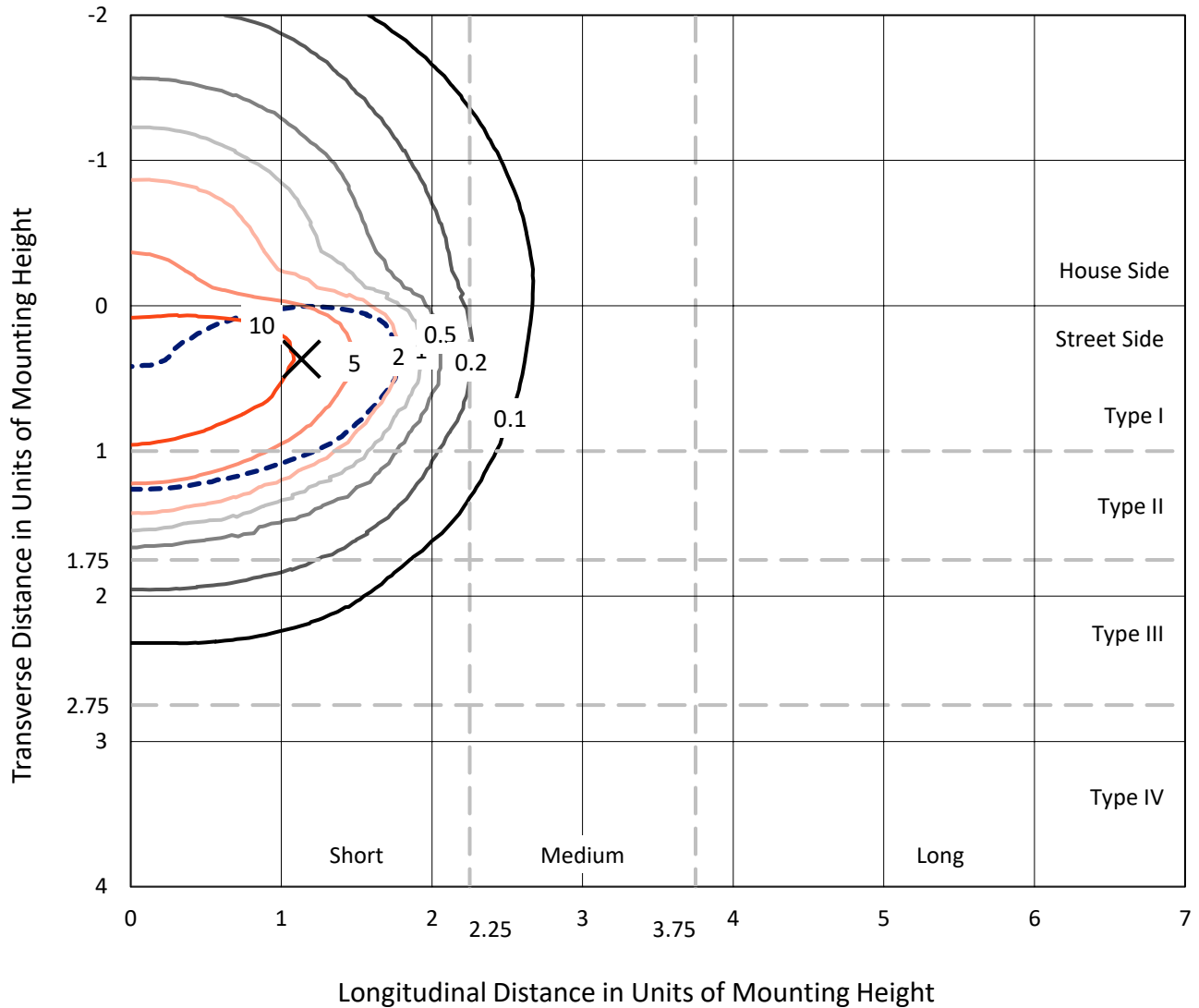
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

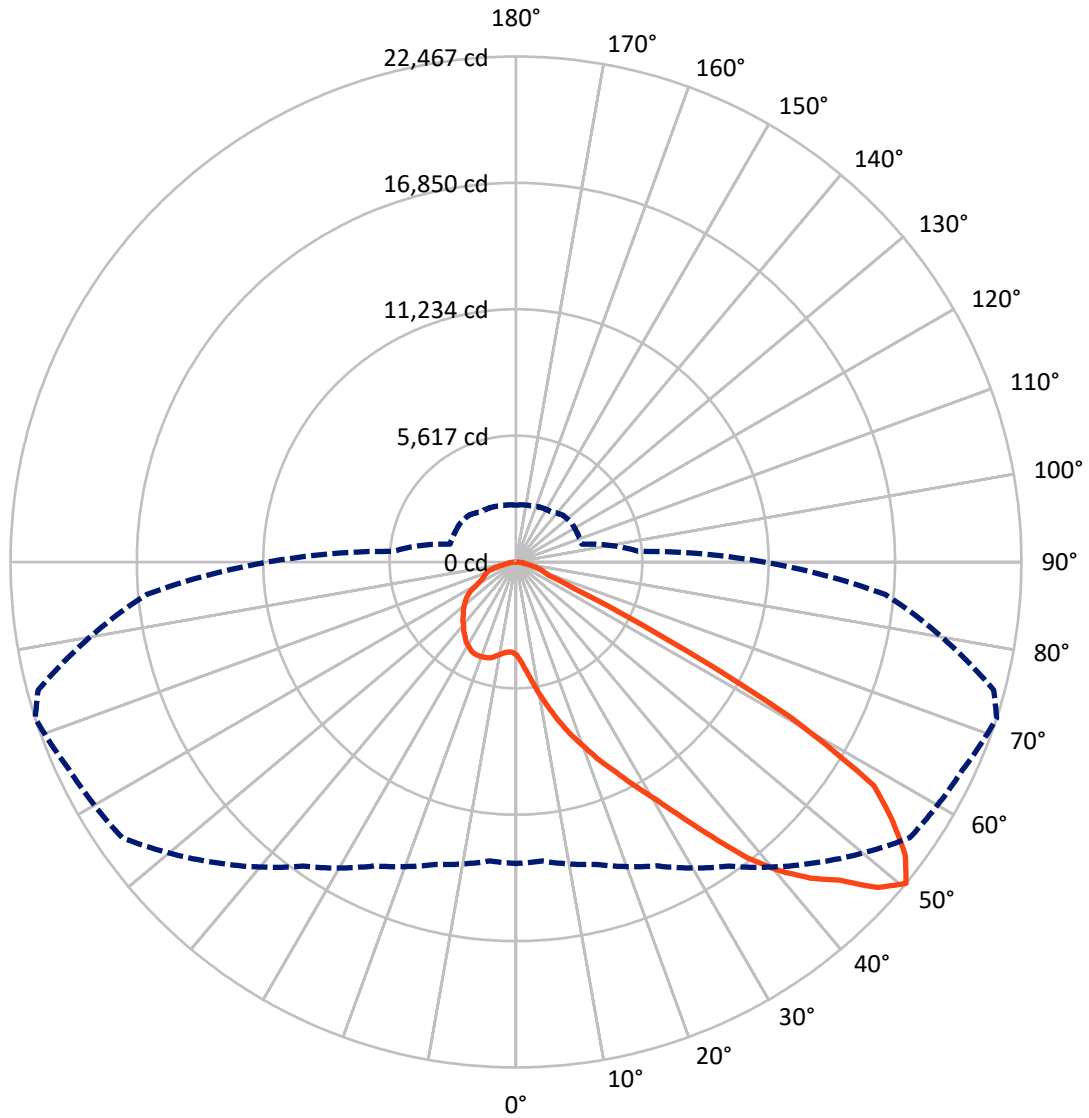
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6800.3	0.0	6800.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22881.7	0.0	22881.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	29682.0	0.0	29682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.0	1.6
10°-20°	1816.9	6.1
20°-30°	3522.9	11.9
30°-40°	5836.2	19.7
40°-50°	8166.1	27.5
50°-60°	6889.2	23.2
60°-70°	2099.8	7.1
70°-80°	736.7	2.5
80°-90°	128.1	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°	29682.0	100.0
0°-180°	29682.0	100.0

**Coefficient of Utilization**

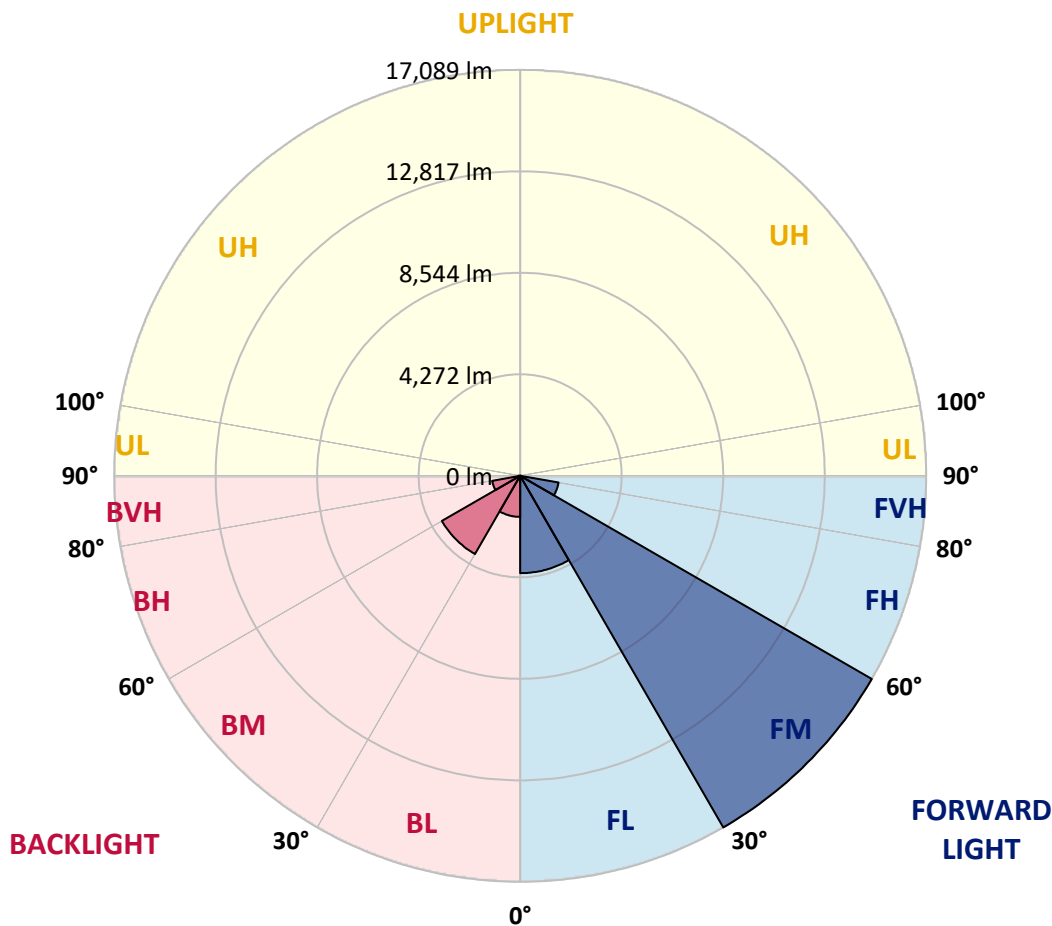


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4097.2	13.8			
FM (30°-60°)	17088.7	57.6			
FH (60°-80°)	1638.4	5.5			G1/1800
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	1728.7	5.8	B3/2500		
BM (30°-60°)	3802.8	12.8	B3/5000		
BH (60°-80°)	1198.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	70.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0
2.5°	5314.7	5281.6	5182.4	5149.4	5031.8	4818.8	4745.4	4528.7	4436.8	4352.4	4253.2
5°	6721.4	6567.1	6556.1	6368.8	6097.0	5939.0	5468.9	5153.0	4862.9	4716.0	4444.2
7.5°	7617.5	7621.2	7621.2	7467.0	7250.3	6849.9	6427.5	5858.2	5421.2	5204.5	4741.7
10°	8469.7	8396.2	8355.8	8341.1	8194.2	7804.9	7353.1	6647.9	6049.2	5795.8	4965.7
12.5°	9072.0	9009.6	9101.4	9053.6	8947.1	8693.7	8267.6	7463.3	6714.0	6372.4	5325.7
15°	9358.5	9402.6	9476.0	9608.2	9560.5	9465.0	8994.9	8300.7	7430.2	7044.6	5645.2
17.5°	9799.2	9678.0	9766.2	9931.5	10063.7	10019.6	9751.5	8906.7	8139.1	7665.3	6074.9
20°	10107.8	10038.0	10082.0	10273.0	10372.2	10622.0	10482.4	9700.1	8818.6	8319.1	6581.8
22.5°	10989.3	10886.4	10743.2	10772.6	10809.3	10985.6	11018.6	10570.5	9608.2	9079.4	7062.9
25°	12076.4	11980.9	11812.0	11639.3	11532.8	11499.8	11613.6	11253.7	10364.9	9817.6	7580.8
27.5°	13273.8	13112.2	13005.7	12649.4	12362.9	12318.8	12263.7	12069.1	11261.0	10669.7	8164.8
30°	14438.1	14309.5	14166.3	13597.0	13299.5	13251.7	12980.0	13035.0	12234.4	11576.9	8825.9
32.5°	15319.6	15330.6	15003.7	14574.0	14294.8	14041.4	13942.2	14100.2	13483.1	12954.2	9564.2
35°	16032.1	16065.2	15753.0	15363.6	15062.5	15238.8	15194.7	15268.2	14974.3	14327.9	10423.6
37.5°	16726.3	16561.0	16226.8	16039.5	15881.5	16171.7	16546.3	16608.8	16663.8	15903.6	11422.6
40°	16840.1	16854.8	16660.2	16792.4	16594.1	17031.1	17901.6	17820.8	18044.8	17380.1	12506.1
42.5°	16678.5	16711.6	16788.7	16976.0	17453.5	17978.7	19271.6	18941.0	19212.8	18621.5	13560.3
45°	16414.1	16278.2	16373.7	17086.2	17912.6	19080.6	20524.0	20266.9	20178.8	19683.0	14816.4
47.5°	15150.6	15290.2	15587.7	16465.5	17706.9	19271.6	21412.9	21354.1	21618.6	21269.6	15958.7
50°	13398.7	13343.6	13916.5	14904.5	16505.9	18897.0	21365.1	21897.7	22467.0	21982.2	16469.2
52.5°	10034.3	10328.1	10820.3	12047.0	14331.6	16854.8	20322.0	21210.9	21673.7	21570.8	16057.8
55°	6343.1	6431.2	6728.7	8186.8	10243.7	13527.2	17420.5	19480.9	20307.3	20693.0	15679.5
57.5°	3081.5	2916.3	3279.9	4451.5	5917.0	9097.7	13435.4	16968.7	18764.7	19462.6	14856.8
60°	1608.7	1671.2	1814.4	2233.1	3059.5	4723.3	8374.2	11308.8	14052.4	15124.9	11261.0
62.5°	1333.3	1355.3	1450.8	1660.1	2034.8	2717.9	4275.2	5513.0	7165.8	8131.8	6405.5
65°	1131.2	1142.3	1245.1	1384.7	1623.4	1913.6	2200.1	2302.9	2787.7	2861.2	2277.2
67.5°	943.9	954.9	1065.1	1197.4	1351.6	1428.7	1502.2	1494.9	1550.0	1527.9	1524.2
70°	727.2	738.2	852.1	991.7	1068.8	1024.7	1252.5	1303.9	1325.9	1344.3	1373.7
72.5°	525.2	547.3	635.4	734.6	694.2	797.0	1032.1	1109.2	1138.6	1149.6	1186.3
75°	382.0	389.3	411.4	382.0	440.7	554.6	727.2	822.7	859.5	870.5	925.6
77.5°	169.0	172.6	176.3	220.4	282.8	345.3	433.4	510.5	562.0	576.6	591.3
80°	88.1	91.8	113.9	150.6	202.0	253.4	315.9	359.9	393.0	396.7	411.4
82.5°	55.1	58.8	80.8	106.5	143.2	187.3	231.4	268.1	293.8	297.5	301.2
85°	25.7	33.1	47.7	66.1	95.5	121.2	124.9	106.5	113.9	117.5	110.2
87.5°	7.3	11.0	14.7	11.0	14.7	14.7	18.4	22.0	22.0	22.0	25.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0	4132.0
2.5°	4198.1	4165.0	4036.5	3988.7	3863.9	3885.9	3819.8	3816.1	3801.4	3797.8	3794.1
5°	4300.9	4198.1	4043.8	3926.3	3856.5	3849.2	3801.4	3801.4	3816.1	3827.1	3801.4
7.5°	4469.9	4352.4	4091.6	3981.4	3919.0	3907.9	3874.9	3849.2	3882.2	3871.2	3841.8
10°	4664.6	4458.9	4183.4	4087.9	3985.1	3959.4	3959.4	3970.4	3915.3	3933.7	3904.3
12.5°	4881.3	4605.8	4300.9	4190.8	4069.5	4054.9	4047.5	3966.7	3996.1	3981.4	3907.9
15°	5156.7	4774.7	4451.5	4264.2	4161.4	4095.3	3999.8	3985.1	3966.7	3930.0	3896.9
17.5°	5454.2	4958.4	4521.3	4286.2	4132.0	4084.2	4010.8	3933.7	3878.6	3885.9	3860.2
20°	5707.7	5127.3	4547.0	4308.3	4110.0	4018.1	3904.3	3856.5	3797.8	3794.1	3790.4
22.5°	6008.8	5355.1	4583.8	4249.5	4043.8	3948.3	3871.2	3786.7	3746.3	3694.9	3720.6
25°	6368.8	5443.2	4591.1	4216.5	3996.1	3827.1	3786.7	3694.9	3680.2	3606.8	3621.5
27.5°	6629.5	5491.0	4532.3	4113.6	3885.9	3757.4	3683.9	3617.8	3592.1	3537.0	3522.3
30°	6978.5	5564.4	4407.5	3985.1	3775.7	3632.5	3588.4	3573.7	3500.3	3441.5	3434.1
32.5°	7375.1	5612.2	4326.7	3852.8	3661.9	3551.7	3573.7	3503.9	3412.1	3360.7	3346.0
35°	7691.0	5630.5	4124.6	3702.3	3584.7	3514.9	3489.2	3474.5	3342.3	3294.6	3257.8
37.5°	8172.2	5590.1	3955.7	3595.7	3500.3	3474.5	3452.5	3353.3	3202.7	3133.0	3081.5
40°	8734.1	5579.1	3739.0	3445.2	3419.4	3448.8	3382.7	3228.5	3019.1	2942.0	2905.2
42.5°	9274.0	5656.2	3603.1	3364.4	3331.3	3342.3	3250.5	3019.1	2916.3	2872.2	2813.4
45°	10177.5	5817.8	3379.0	3239.5	3224.8	3217.4	3107.3	2864.8	2806.1	2751.0	2740.0
47.5°	10992.9	5711.3	3235.8	3110.9	3125.6	3085.2	2850.2	2773.0	2706.9	2651.8	2633.5
50°	11040.7	5457.9	3033.8	3011.8	3015.4	2945.6	2721.6	2670.2	2585.7	2549.0	2523.3
52.5°	10790.9	5042.9	2846.5	2853.8	2864.8	2751.0	2563.7	2526.9	2457.2	2405.7	2391.0
55°	10089.4	4396.4	2662.8	2692.2	2721.6	2504.9	2446.1	2354.3	2299.2	2225.8	2229.4
57.5°	8888.4	3540.7	2405.7	2453.5	2515.9	2277.2	2233.1	2119.3	2038.4	1979.7	1972.3
60°	5957.4	2519.6	2020.1	2038.4	2178.0	2082.5	2078.8	1965.0	1854.8	1803.4	1774.0
62.5°	3514.9	1924.6	1744.6	1726.3	1722.6	1777.7	1869.5	1829.1	1685.9	1586.7	1616.1
65°	1840.1	1663.8	1623.4	1561.0	1524.2	1509.6	1579.3	1597.7	1502.2	1395.7	1388.3
67.5°	1546.3	1546.3	1513.2	1491.2	1439.8	1377.3	1333.3	1274.5	1259.8	1230.4	1193.7
70°	1406.7	1443.4	1432.4	1381.0	1336.9	1267.1	1153.3	1057.8	966.0	932.9	954.9
72.5°	1226.7	1263.5	1263.5	1237.8	1179.0	1072.5	962.3	852.1	775.0	716.2	708.9
75°	943.9	962.3	1006.4	977.0	899.9	833.7	719.9	606.0	532.6	477.5	466.5
77.5°	602.4	631.7	631.7	628.1	573.0	510.5	437.1	356.3	301.2	260.8	249.8
80°	400.3	418.7	433.4	418.7	382.0	334.2	279.1	224.0	183.6	150.6	143.2
82.5°	293.8	315.9	326.9	312.2	275.5	238.7	198.3	157.9	117.5	91.8	84.5
85°	113.9	117.5	132.2	157.9	154.3	150.6	121.2	88.1	66.1	47.7	44.1
87.5°	29.4	25.7	29.4	29.4	25.7	22.0	22.0	22.0	22.0	11.0	14.7
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)