

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: P533231

Luminaire Tested: **GALN-SA8C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24618 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

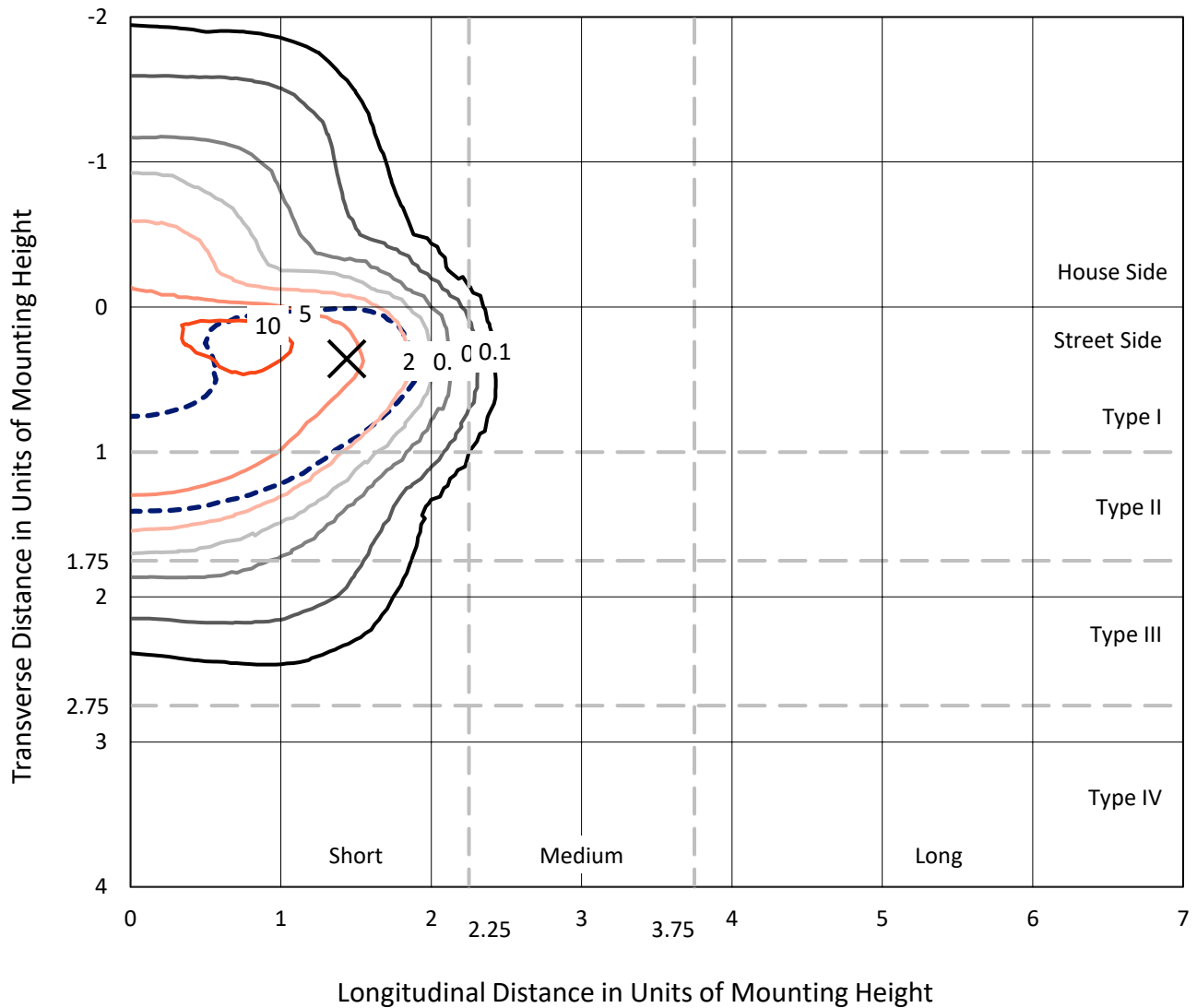
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533231
 CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

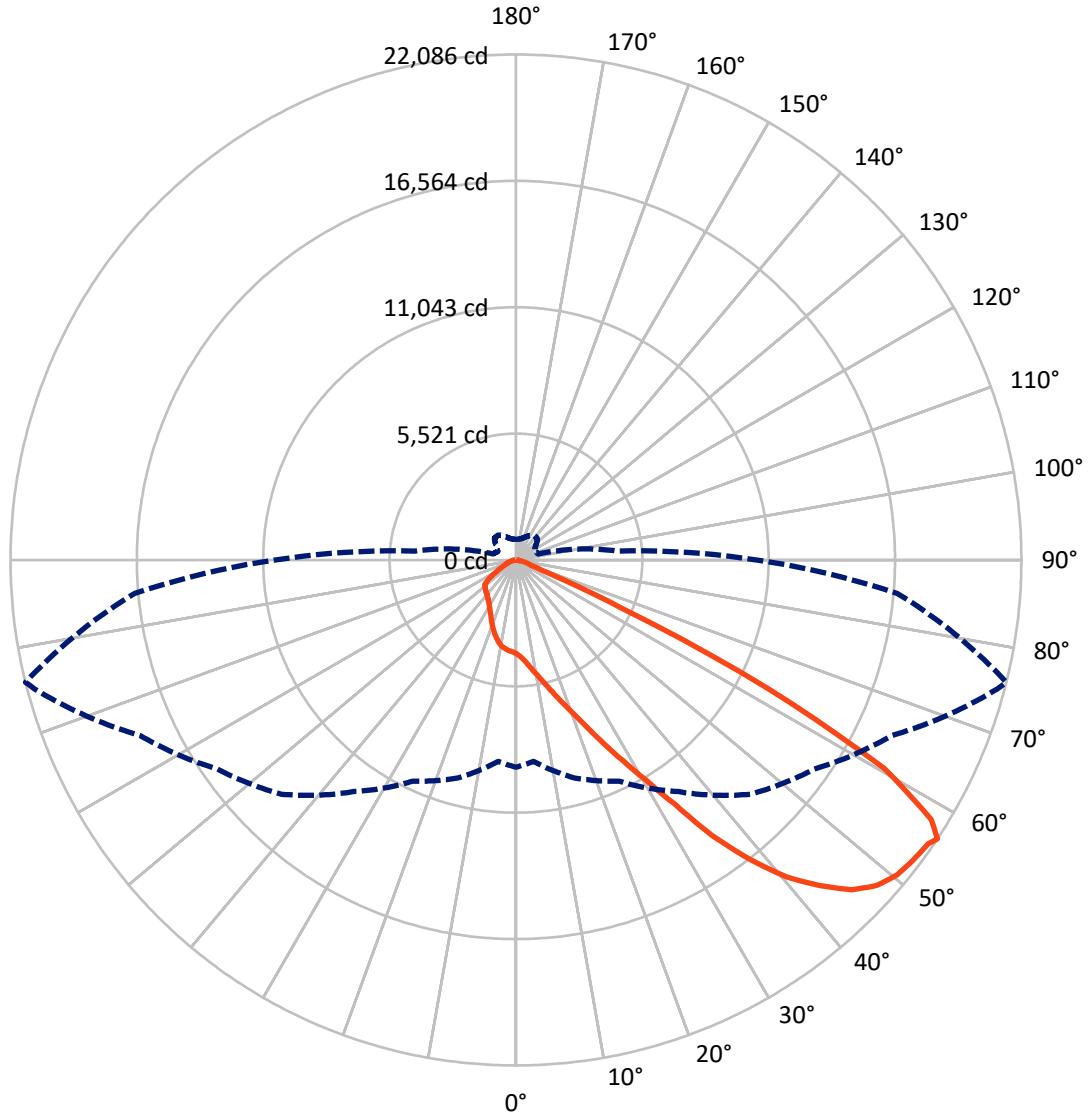
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P533231
CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P533231
 CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

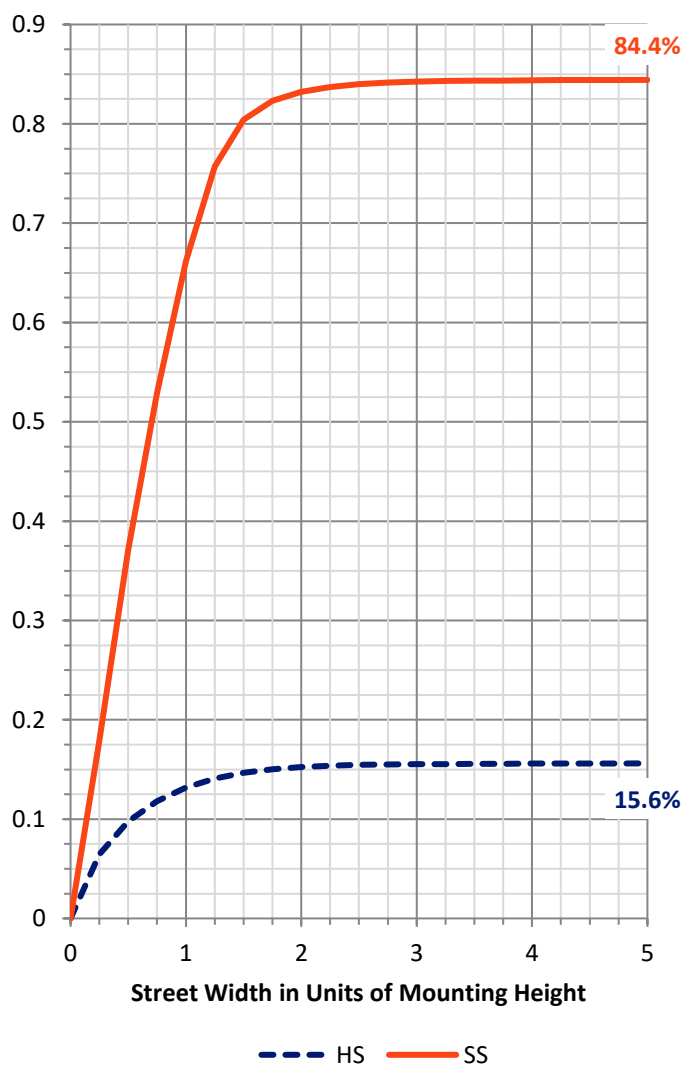
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3867.4	0.0	3867.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20750.6	0.0	20750.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	24618.0	0.0	24618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.7
10°-20°	1326.1	5.4
20°-30°	2404.6	9.8
30°-40°	4146.9	16.8
40°-50°	6736.8	27.4
50°-60°	7100.8	28.8
60°-70°	2169.6	8.8
70°-80°	278.1	1.1
80°-90°	42.3	0.2
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°	24618.0	100.0
0°-180°	24618.0	100.0

Coefficient of Utilization

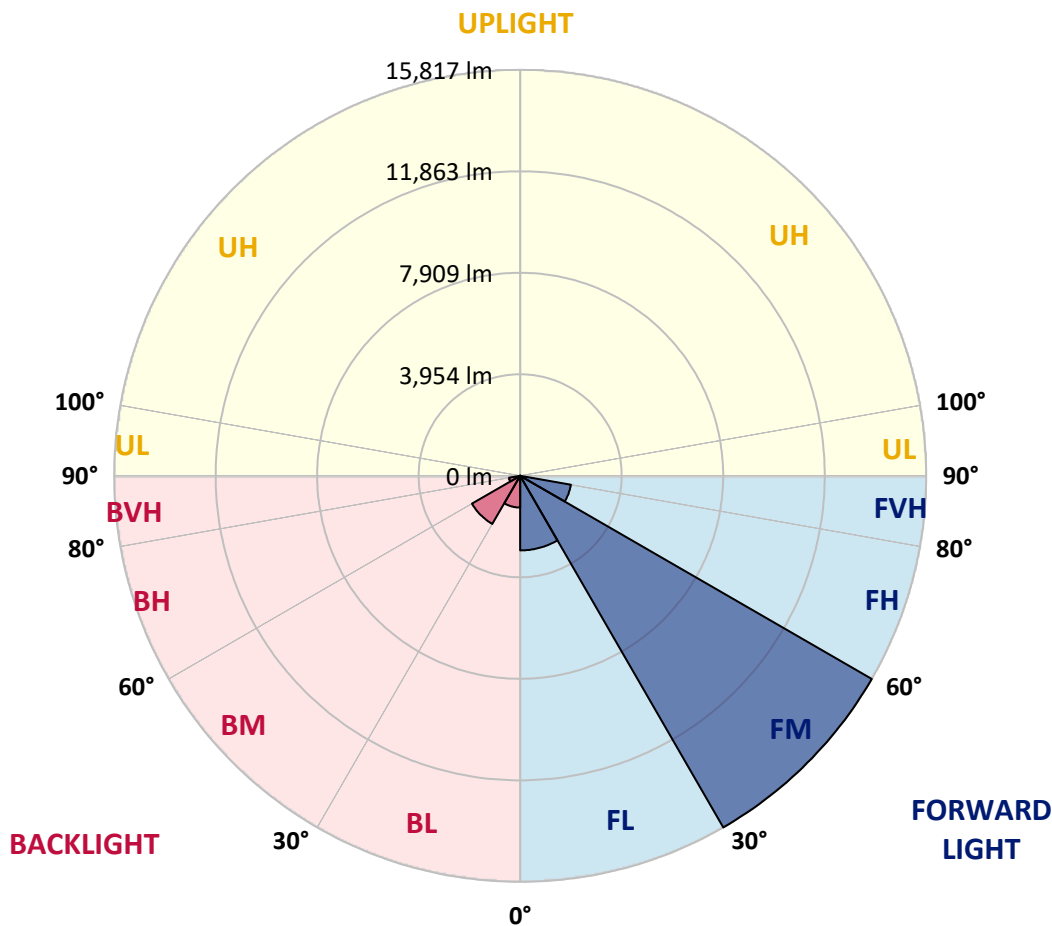


REPORT NUMBER: P533231
 CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2906.4	11.8			
FM (30°-60°)	15817.0	64.2			
FH (60°-80°)	2006.5	8.2			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1237.2	5.0	B3/2500		
BM (30°-60°)	2167.4	8.8	B2/2500		
BH (60°-80°)	441.2	1.8	B1/500		G1/500
BVH (80°-90°)	21.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P533231

CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7
2.5°	4719.4	4610.5	4615.0	4605.9	4592.3	4542.4	4392.7	4370.0	4270.1	4242.9	4152.2
5°	5286.6	5191.3	5245.8	5164.1	5087.0	5041.6	4796.5	4683.1	4524.3	4465.3	4338.2
7.5°	5640.6	5595.2	5577.1	5581.6	5509.0	5395.5	5286.6	5037.0	4823.8	4778.4	4510.6
10°	5813.0	5785.8	5813.0	5799.4	5831.2	5844.8	5654.2	5504.4	5191.3	5114.2	4696.7
12.5°	5853.9	5908.3	5931.0	5990.0	6067.1	6198.7	6185.1	5980.9	5563.4	5513.5	4982.6
15°	5953.7	5999.1	5976.4	6071.7	6216.9	6439.2	6557.2	6525.5	6076.2	5985.5	5313.9
17.5°	6044.5	5962.8	6039.9	6230.5	6375.7	6716.1	7001.9	7133.5	6634.4	6530.0	5617.9
20°	6167.0	6144.3	6130.7	6226.0	6484.6	6938.4	7505.6	7746.2	7260.6	7151.7	6053.5
22.5°	6539.1	6543.6	6534.5	6393.9	6579.9	7092.7	7945.8	8540.3	8009.4	7918.6	6548.2
25°	7029.2	6970.2	6924.8	6811.4	6788.7	7233.4	8390.5	9511.4	8907.9	8844.3	7083.6
27.5°	7546.5	7546.5	7410.4	7306.0	7160.8	7582.8	8798.9	10455.3	9992.4	9906.2	7551.0
30°	8109.2	8141.0	8122.8	7900.4	7809.7	7964.0	9216.4	11662.3	11235.8	11126.9	8322.5
32.5°	8939.6	8871.5	8948.7	8762.6	8494.9	8631.0	9874.4	12742.4	12851.3	12697.0	9334.4
35°	10037.8	9996.9	9947.0	9643.0	9325.3	9434.2	10804.7	14072.0	14879.7	14802.6	10355.4
37.5°	11022.5	10999.8	10959.0	10750.2	10382.7	10514.3	11862.0	15456.0	16858.2	16604.1	11798.5
40°	12057.1	12179.7	12048.1	11862.0	11526.2	11816.6	13105.4	16277.4	18523.6	18215.0	12901.2
42.5°	13459.3	13364.0	13423.0	13082.7	12901.2	13218.8	14353.3	17098.7	19816.9	19449.3	14072.0
45°	14952.3	14956.8	14798.0	14689.1	14217.2	14562.0	15120.2	17552.5	20847.0	20561.1	14956.8
47.5°	15909.8	15905.3	16077.7	16250.1	15764.6	15424.2	15642.1	17983.6	21377.9	21246.3	15279.0
50°	15760.0	15805.4	16027.8	16672.2	16926.3	16468.0	16132.2	17856.5	21618.4	21604.8	15555.8
52.5°	13708.9	13858.7	14230.8	15161.0	16440.7	17008.0	16644.9	18092.5	21736.4	21759.1	15968.8
55°	10437.1	10518.8	11226.7	12356.6	13772.5	15714.7	16440.7	18278.6	21827.2	21868.0	16468.0
56°	9053.1	8835.2	9856.3	10659.5	12352.1	14475.8	15923.4	18133.4	21772.7	22085.8	16717.5
57.5°	6834.0	6688.8	7514.7	8517.6	10146.7	12388.4	14317.0	17448.1	21405.2	21400.6	16359.0
60°	4156.7	4011.5	4646.8	5236.7	6148.8	7628.2	9674.8	13895.0	18097.1	18478.2	13246.1
62.5°	2473.1	2563.9	3190.1	3548.6	3843.6	3997.9	5005.3	8258.9	12075.3	12347.6	8218.1
65°	1647.2	1679.0	2151.0	2740.9	2872.5	2287.1	2037.5	3344.4	5236.7	5068.8	3389.8
67.5°	1016.5	1089.1	1443.0	2060.2	2282.6	1669.9	966.6	1247.9	1443.0	1443.0	980.2
70°	617.2	653.5	962.0	1402.2	1565.6	1075.5	703.4	703.4	694.3	680.7	585.4
72.5°	295.0	317.7	490.1	721.5	735.1	567.2	544.5	594.5	580.8	576.3	485.6
75°	127.1	136.1	172.4	226.9	258.7	240.5	331.3	426.6	440.2	426.6	349.4
77.5°	40.8	45.4	63.5	81.7	86.2	104.4	140.7	177.0	204.2	190.6	172.4
80°	4.5	9.1	18.2	40.8	63.5	81.7	104.4	118.0	131.6	131.6	122.5
82.5°	4.5	4.5	18.2	36.3	59.0	77.1	99.8	113.4	131.6	136.1	127.1
85°	0.0	4.5	13.6	31.8	49.9	49.9	45.4	45.4	31.8	31.8	31.8
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533231

CATALOG NUMBER: GALN-SA8C-827-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7
2.5°	4134.0	4124.9	4002.4	3925.3	3884.4	3802.7	3752.8	3716.5	3689.3	3657.5	3662.1
5°	4188.5	4156.7	3952.5	3811.8	3643.9	3553.2	3476.0	3412.5	3371.6	3362.6	3344.4
7.5°	4342.7	4174.8	3866.3	3612.2	3398.9	3308.1	3240.0	3199.2	3217.4	3176.5	3208.3
10°	4460.7	4211.2	3761.9	3394.3	3181.1	3113.0	3076.7	3108.4	3153.8	3135.7	3113.0
12.5°	4605.9	4247.5	3594.0	3185.6	2985.9	2936.0	2999.5	3058.5	3149.3	3185.6	3140.2
15°	4769.3	4288.3	3380.7	2945.1	2818.0	2858.9	2967.8	3072.1	3162.9	3208.3	3235.5
17.5°	4969.0	4274.7	3172.0	2754.5	2659.2	2777.2	2908.8	3004.1	3140.2	3208.3	3190.1
20°	5155.0	4229.3	2940.5	2563.9	2568.4	2677.3	2786.3	2940.5	3013.2	3103.9	3072.1
22.5°	5332.0	4147.6	2700.0	2432.3	2432.3	2600.2	2654.7	2754.5	2818.0	2863.4	2858.9
25°	5581.6	3993.3	2500.4	2305.2	2359.7	2468.6	2514.0	2545.7	2518.5	2554.8	2559.4
27.5°	5758.6	3834.5	2337.0	2191.8	2291.6	2373.3	2359.7	2341.5	2278.0	2228.1	2259.9
30°	5949.2	3648.5	2196.3	2114.7	2169.1	2241.7	2187.3	2132.8	2033.0	1951.3	1955.8
32.5°	6221.4	3562.2	2073.8	2023.9	2096.5	2105.6	2046.6	1964.9	1865.1	1787.9	1783.4
35°	6729.7	3507.8	1969.4	1964.9	1978.5	1983.1	1924.1	1824.2	1783.4	1719.9	1742.5
37.5°	7237.9	3480.6	1896.8	1878.7	1874.1	1878.7	1810.6	1715.3	1792.5	1787.9	1797.0
40°	7886.8	3603.1	1792.5	1769.8	1774.3	1774.3	1688.1	1660.9	1797.0	1810.6	1815.2
42.5°	8544.8	3757.4	1724.4	1651.8	1669.9	1669.9	1624.6	1592.8	1688.1	1597.3	1583.7
45°	9116.6	3984.3	1651.8	1533.8	1579.2	1601.9	1588.3	1533.8	1474.8	1320.5	1320.5
47.5°	9302.6	4183.9	1565.6	1420.4	1456.7	1556.5	1515.7	1402.2	1297.8	1170.8	1161.7
50°	9629.4	4401.7	1497.5	1288.8	1365.9	1488.4	1447.6	1334.1	1216.2	1125.4	1129.9
52.5°	9965.2	4651.3	1370.4	1134.5	1229.8	1434.0	1434.0	1306.9	1125.4	1061.9	1052.8
55°	10468.9	4642.2	1143.5	930.3	1098.2	1352.3	1375.0	1170.8	1007.4	957.5	957.5
56°	10541.5	4433.5	1030.1	871.3	1039.2	1329.6	1334.1	1134.5	962.0	907.6	907.6
57.5°	9996.9	4002.4	903.0	798.7	966.6	1288.8	1293.3	1102.7	925.7	848.6	839.5
60°	7691.7	2709.1	753.3	712.4	875.8	1161.7	1184.4	1002.9	812.3	753.3	748.7
62.5°	4342.7	1502.0	662.5	644.4	753.3	989.3	1057.3	875.8	689.8	658.0	667.1
65°	1983.1	825.9	558.2	521.9	608.1	762.4	853.1	721.5	567.2	530.9	530.9
67.5°	726.1	562.7	476.5	412.9	426.6	494.6	553.6	467.4	376.6	322.2	335.8
70°	517.3	471.9	417.5	358.5	331.3	322.2	317.7	263.2	186.1	145.2	154.3
72.5°	417.5	390.3	349.4	304.0	258.7	217.8	186.1	136.1	86.2	59.0	54.5
75°	299.5	285.9	254.1	217.8	181.5	154.3	127.1	86.2	45.4	22.7	22.7
77.5°	154.3	154.3	149.7	136.1	113.4	90.8	72.6	49.9	27.2	9.1	9.1
80°	118.0	127.1	131.6	118.0	104.4	81.7	59.0	36.3	18.2	4.5	4.5
82.5°	113.4	131.6	140.7	122.5	104.4	77.1	59.0	36.3	18.2	4.5	4.5
85°	27.2	27.2	40.8	45.4	59.0	63.5	49.9	31.8	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	0.0
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)