

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: P534171

Luminaire Tested: **GALN-SA9C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27979 lumens
Efficiency: N/A
Efficacy: 58.2 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

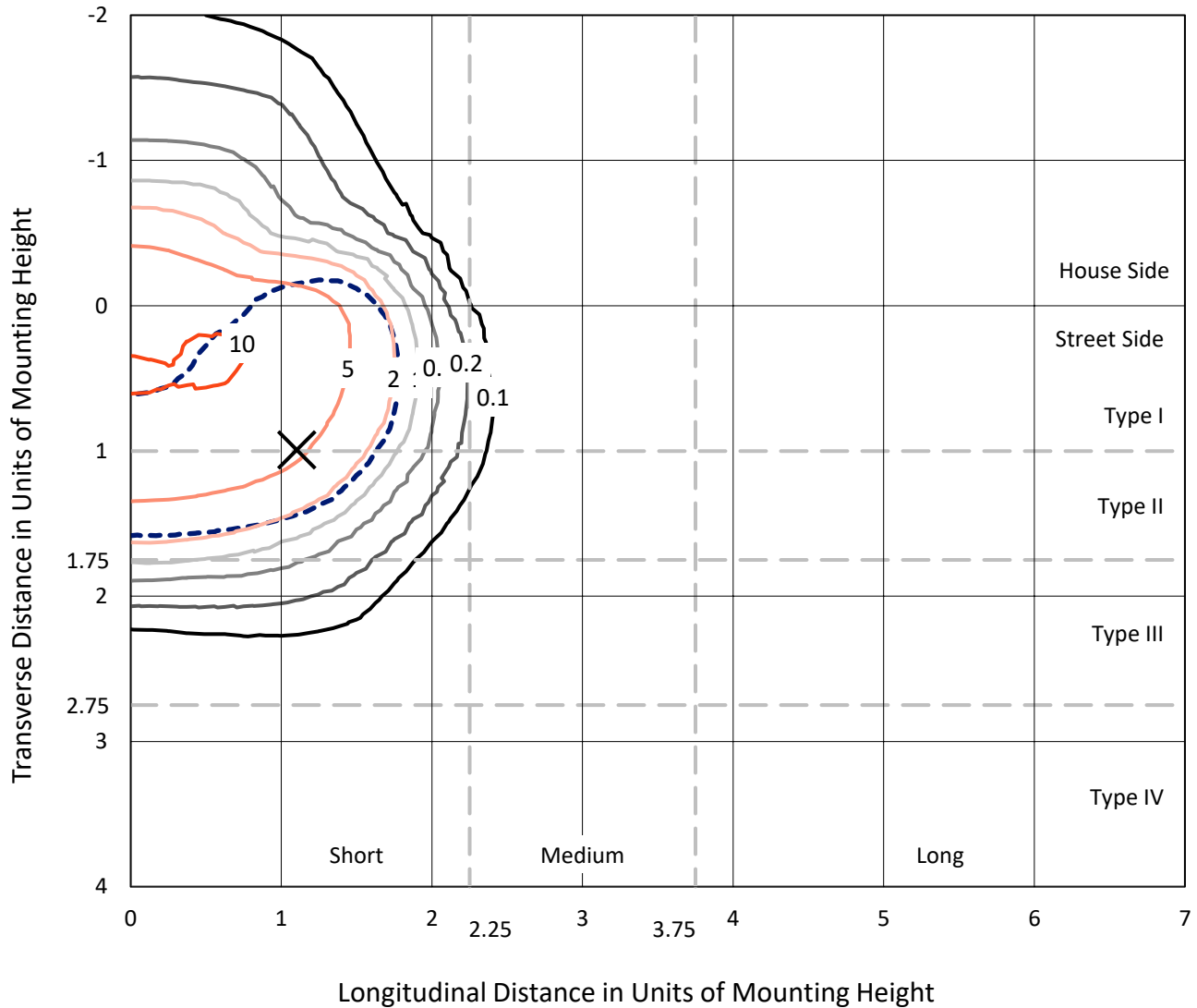
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534171
 CATALOG NUMBER: GALN-SA9C-827-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

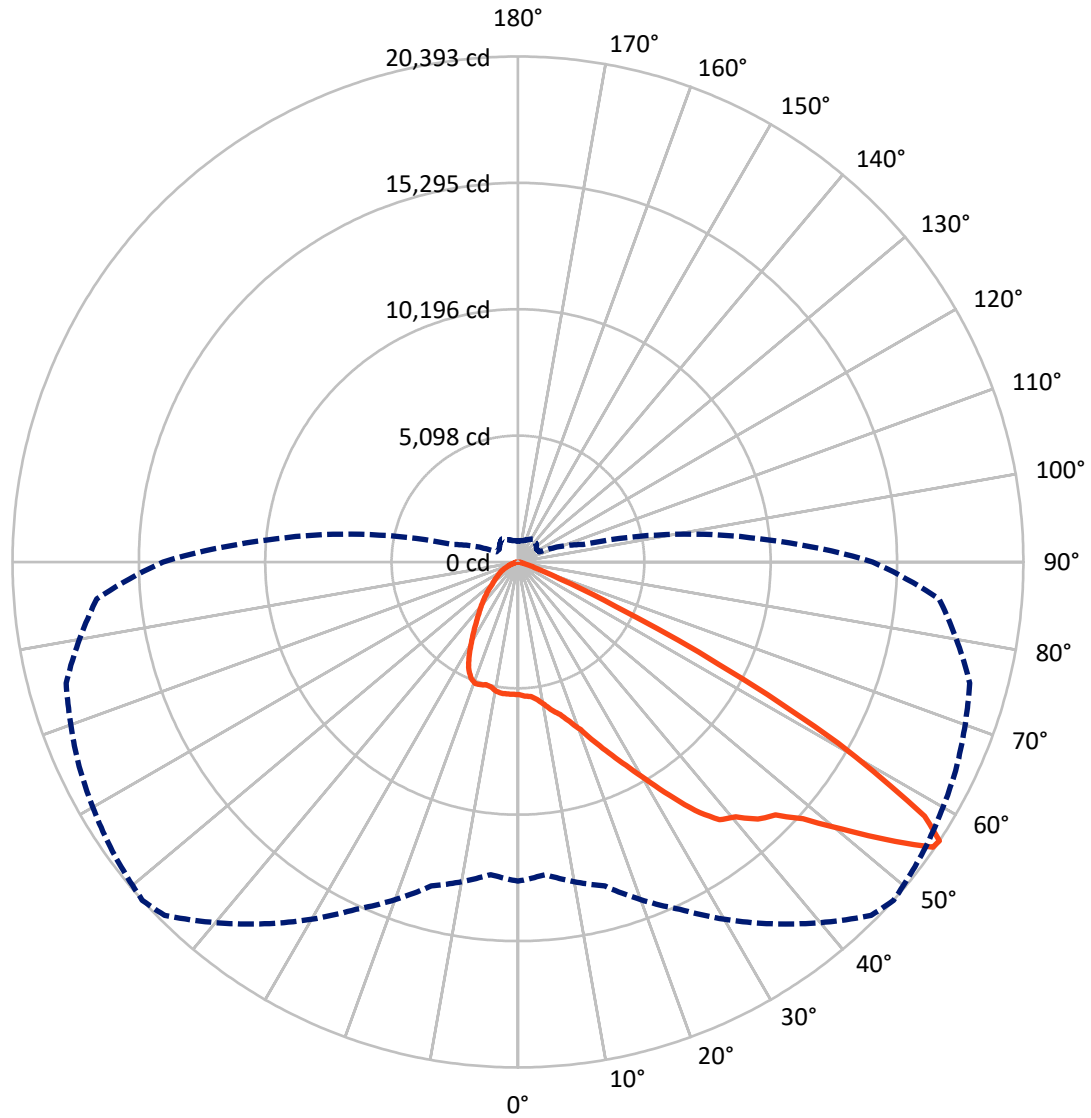
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P534171
CATALOG NUMBER: GALN-SA9C-827-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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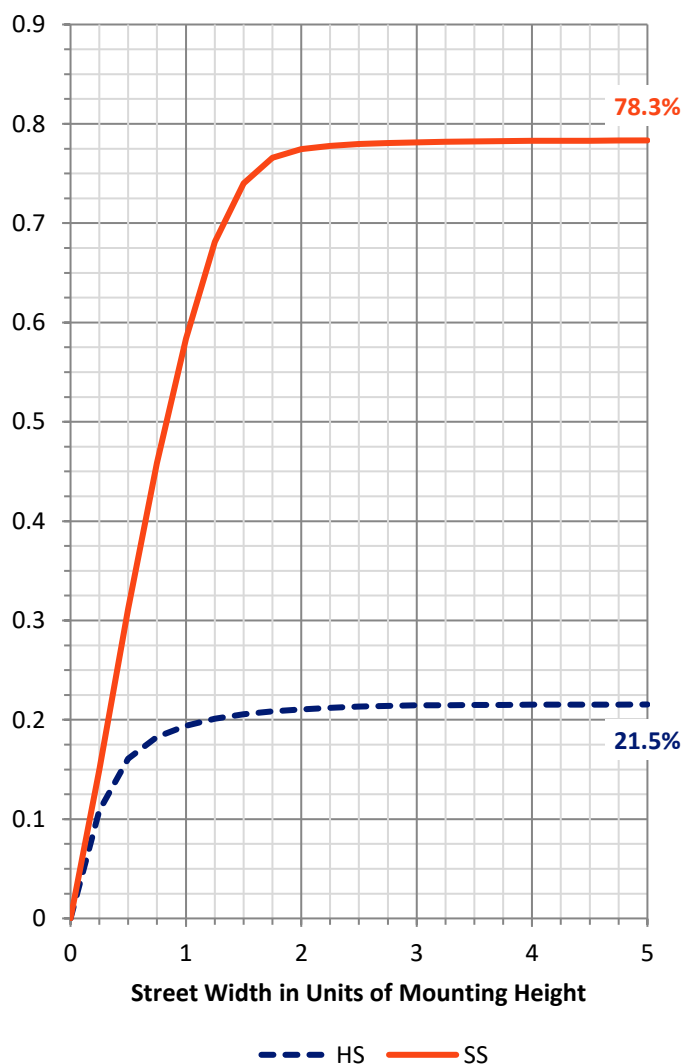
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6084.9	0.0	6084.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21894.1	0.0	21894.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	27979.0	0.0	27979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.6	1.9
10°-20°	1663.6	5.9
20°-30°	3017.5	10.8
30°-40°	4739.9	16.9
40°-50°	6914.6	24.7
50°-60°	8330.8	29.8
60°-70°	2439.2	8.7
70°-80°	309.4	1.1
80°-90°	43.4	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°	27979.0	100.0
0°-180°	27979.0	100.0

Coefficient of Utilization

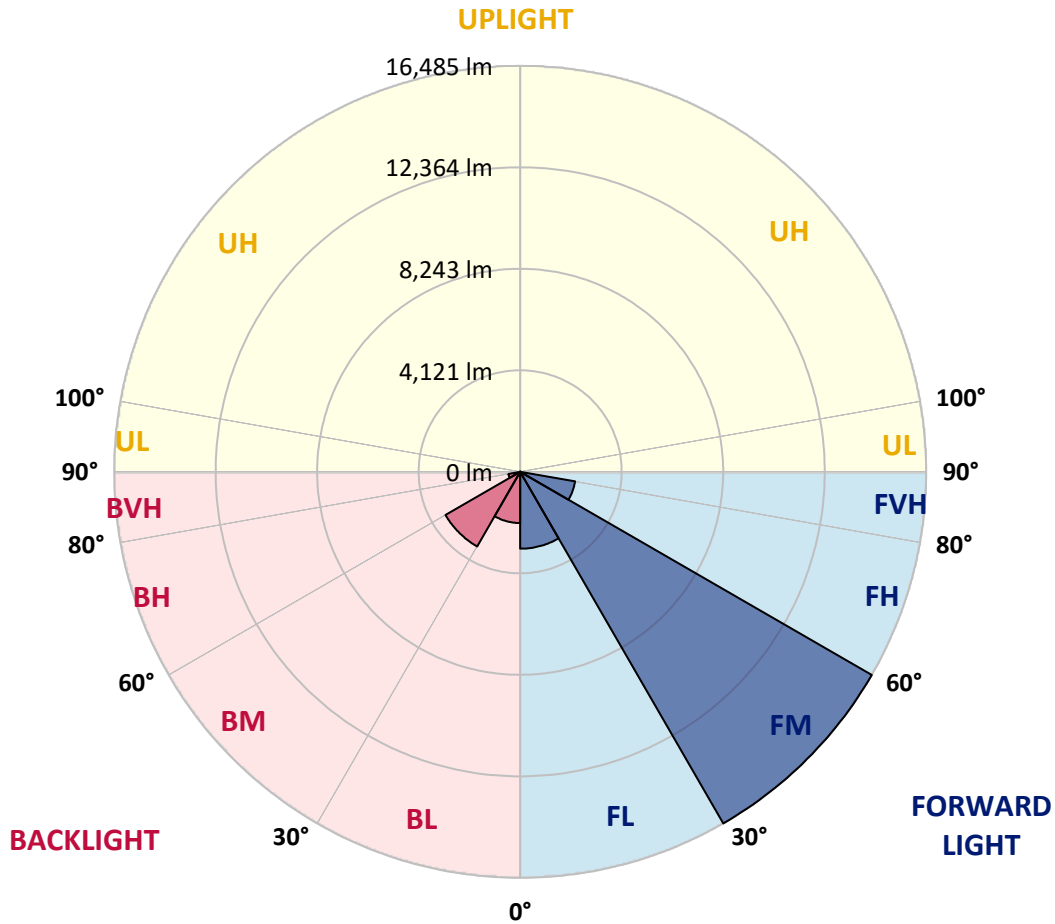


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.9	11.2			
FM (30°-60°)	16485.3	58.9			
FH (60°-80°)	2265.1	8.1			G2/5000
FVH (80°-90°)	21.8	0.1			G1/100
BL (0°-30°)	2079.8	7.4	B3/2500		
BM (30°-60°)	3500.0	12.5	B3/5000		
BH (60°-80°)	483.5	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0
2.5°	5440.8	5415.3	5415.3	5374.6	5420.4	5400.0	5415.3	5364.4	5415.3	5338.9	5400.0
5°	5466.3	5471.4	5451.0	5476.5	5476.5	5507.0	5456.1	5501.9	5527.4	5471.4	5445.9
7.5°	5598.7	5608.9	5603.8	5583.4	5624.2	5619.1	5614.0	5578.3	5588.5	5568.2	5537.6
10°	5858.5	5853.4	5878.9	5828.0	5797.4	5833.1	5843.3	5787.2	5746.5	5731.2	5634.4
12.5°	6235.5	6174.4	6138.7	6087.8	6103.1	6052.1	6143.8	6047.0	6026.6	5934.9	5838.2
15°	6541.2	6531.0	6536.1	6454.6	6362.9	6383.3	6383.3	6332.3	6301.7	6189.7	6052.1
17.5°	7167.8	6953.8	6999.7	6897.8	6821.4	6816.3	6770.4	6780.6	6699.1	6464.8	6255.9
20°	7656.8	7565.1	7493.8	7320.6	7203.4	7239.1	7218.7	7167.8	7142.3	6836.7	6541.2
22.5°	8095.0	8125.5	8008.4	7962.5	7799.5	7814.8	7855.5	7809.7	7616.1	7300.2	6862.1
25°	8711.4	8675.7	8517.8	8461.8	8308.9	8365.0	8522.9	8487.2	8365.0	7794.4	7111.7
27.5°	9439.9	9317.6	9348.2	9093.5	8945.7	9103.7	9292.1	9470.4	9124.0	8375.2	7407.2
30°	9954.4	9827.1	9816.9	9806.7	9771.0	9954.4	10173.5	10336.5	10056.3	8955.9	7896.3
32.5°	10209.1	10239.7	10326.3	10295.7	10606.5	10983.5	11212.7	11447.1	11095.6	9903.5	8543.3
35°	10886.7	10693.1	10886.7	10907.1	11228.0	12027.8	12318.2	12878.6	12792.0	11243.3	9332.9
37.5°	11284.0	11268.8	11294.2	11487.8	11798.6	12786.9	13199.5	13632.6	13469.5	12048.2	10316.1
40°	11941.2	11982.0	11976.9	12124.6	12465.9	13357.5	13525.6	13877.1	13892.4	13163.9	11762.9
42.5°	12995.8	12832.7	12725.8	12878.6	13357.5	13851.6	14187.8	14116.5	14620.9	14519.0	13622.4
45°	13943.3	14040.1	13882.2	14136.9	14310.1	14575.0	14564.8	14717.7	15359.5	15843.5	15023.3
47.5°	14829.7	14890.9	14967.3	15140.5	15517.5	15558.2	15471.6	15405.4	16291.8	16791.1	16108.4
50°	15359.5	15415.6	15772.2	16082.9	16786.0	16877.7	16928.6	16760.5	17361.6	17417.7	17132.4
52.5°	15216.9	15278.0	15777.3	16801.3	17922.0	18762.6	18609.8	18324.5	18288.8	18507.9	18079.9
55°	13953.5	13897.5	14585.2	16179.7	18278.6	20296.0	20316.4	20015.8	19440.1	19292.4	17937.3
56°	12878.6	12659.5	13535.8	15461.4	17820.1	20163.5	20392.8	20071.8	19531.8	18869.6	17056.0
57.5°	10550.5	10759.3	11630.5	13225.0	16235.8	19210.9	19343.3	19266.9	18859.4	17748.8	15008.0
60°	5817.8	6184.6	6953.8	8905.0	11559.1	14743.1	14850.1	15471.6	15548.0	13591.8	10326.3
62.5°	2470.8	2430.0	3229.8	4666.4	6581.9	8899.9	9098.6	9735.4	9852.5	7835.2	5181.0
65°	1003.6	1059.6	1462.1	2348.5	3479.5	4055.1	4335.3	4544.2	4931.4	3234.9	1910.4
67.5°	662.3	657.2	860.9	1339.8	1874.7	1808.5	1808.5	1910.4	1767.7	1319.4	825.3
70°	473.8	489.1	616.4	927.2	1166.6	866.0	830.4	794.7	901.7	871.1	667.4
72.5°	310.8	331.1	412.6	555.3	606.2	473.8	473.8	570.6	743.8	703.0	545.1
75°	203.8	208.9	254.7	320.9	300.6	244.5	270.0	382.1	540.0	519.6	387.2
77.5°	137.5	142.6	173.2	208.9	168.1	137.5	147.7	193.6	264.9	264.9	203.8
80°	50.9	56.0	71.3	66.2	76.4	96.8	107.0	132.5	157.9	157.9	137.5
82.5°	0.0	5.1	15.3	35.7	56.0	76.4	86.6	101.9	117.2	132.5	127.4
85°	0.0	5.1	15.3	25.5	40.8	45.8	50.9	35.7	30.6	30.6	25.5
87.5°	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1	10.2	5.1	5.1
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°	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0	5344.0
2.5°	5344.0	5338.9	5338.9	5323.6	5354.2	5338.9	5349.1	5344.0	5277.8	5328.7	5293.1
5°	5400.0	5435.7	5379.7	5369.5	5328.7	5344.0	5344.0	5293.1	5338.9	5333.8	5323.6
7.5°	5542.7	5481.5	5420.4	5359.3	5349.1	5333.8	5277.8	5257.4	5293.1	5252.3	5313.4
10°	5603.8	5614.0	5522.3	5440.8	5364.4	5257.4	5181.0	5135.1	5079.1	5140.2	5175.9
12.5°	5884.0	5782.1	5624.2	5496.8	5237.0	5130.0	5053.6	5033.2	5130.0	5150.4	5114.8
15°	5980.8	5965.5	5761.7	5476.5	5206.5	5079.1	5094.4	5053.6	5063.8	5012.9	5023.1
17.5°	6179.5	6006.3	5766.8	5410.2	5201.4	5170.8	5079.1	4916.1	4824.4	4783.6	4819.3
20°	6398.5	6230.4	5884.0	5435.7	5247.2	5165.7	4865.1	4666.4	4478.0	4376.1	4381.2
22.5°	6592.1	6383.3	5833.1	5445.9	5288.0	4951.7	4590.0	4197.8	3963.4	3805.5	3810.6
25°	6826.5	6531.0	5853.4	5466.3	5181.0	4610.4	4090.8	3708.7	3428.5	3321.5	3357.2
27.5°	6958.9	6622.7	5965.5	5512.1	4900.8	4126.4	3566.1	3209.5	3046.4	2995.5	2990.4
30°	7356.3	6826.5	6103.1	5420.4	4432.1	3606.8	3087.2	2868.1	2710.2	2664.4	2674.5
32.5°	7947.2	7198.4	6281.4	5181.0	3953.2	3143.2	2776.4	2613.4	2465.7	2379.1	2368.9
35°	8441.4	7835.2	6469.9	4809.1	3397.9	2786.6	2557.4	2353.6	2129.4	2032.7	2007.2
37.5°	9383.8	8553.5	6429.1	4248.7	2868.1	2521.7	2323.0	2073.4	1879.8	1747.4	1732.1
40°	10637.1	9394.0	6230.4	3566.1	2475.9	2287.4	2073.4	1834.0	1594.5	1482.5	1472.3
42.5°	12160.3	10423.1	5868.7	2873.2	2083.6	2053.0	1859.4	1584.4	1370.4	1288.9	1294.0
45°	13398.2	11304.4	5501.9	2307.8	1793.2	1823.8	1655.7	1395.9	1248.1	1181.9	1181.9
47.5°	14498.6	11900.5	5104.6	1905.3	1523.2	1594.5	1446.8	1294.0	1166.6	1115.7	1105.5
50°	15558.2	12506.7	4707.2	1543.6	1299.1	1370.4	1355.1	1232.8	1131.0	1069.8	1074.9
52.5°	16220.5	12603.5	4202.9	1263.4	1136.0	1217.6	1268.5	1156.4	1044.3	1008.7	998.5
55°	15410.5	11355.4	3260.4	1039.3	962.8	1069.8	1166.6	1039.3	952.6	891.5	886.4
56°	14320.3	10153.1	2725.5	957.7	911.9	1029.1	1131.0	993.4	896.6	860.9	835.5
57.5°	12124.6	8308.9	2012.3	850.8	845.7	957.7	1074.9	947.6	835.5	804.9	804.9
60°	7560.1	4676.6	1217.6	713.2	733.6	850.8	967.9	845.7	743.8	743.8	759.1
62.5°	3443.8	1946.1	738.7	606.2	631.7	733.6	860.9	764.2	708.1	764.2	774.3
65°	1171.7	840.6	534.9	484.0	499.2	606.2	738.7	774.3	769.3	804.9	825.3
67.5°	657.2	540.0	448.3	402.5	392.3	448.3	606.2	774.3	743.8	728.5	738.7
70°	555.3	458.5	397.4	356.6	341.3	361.7	468.7	585.9	524.7	509.4	499.2
72.5°	448.3	382.1	346.4	320.9	275.1	234.3	214.0	224.2	249.6	264.9	290.4
75°	315.9	290.4	290.4	259.8	198.7	147.7	117.2	96.8	66.2	45.8	50.9
77.5°	178.3	178.3	183.4	157.9	127.4	96.8	71.3	50.9	25.5	10.2	5.1
80°	122.3	132.5	142.6	127.4	107.0	86.6	61.1	35.7	15.3	0.0	0.0
82.5°	122.3	137.5	147.7	127.4	107.0	81.5	61.1	35.7	15.3	5.1	0.0
85°	25.5	30.6	35.7	40.8	61.1	61.1	45.8	30.6	15.3	5.1	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0	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)