

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: P533936

Luminaire Tested: **GALN-SA9B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533936
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-SA9B-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 33322 lumens
Efficiency: N/A
Efficacy: 91.5 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

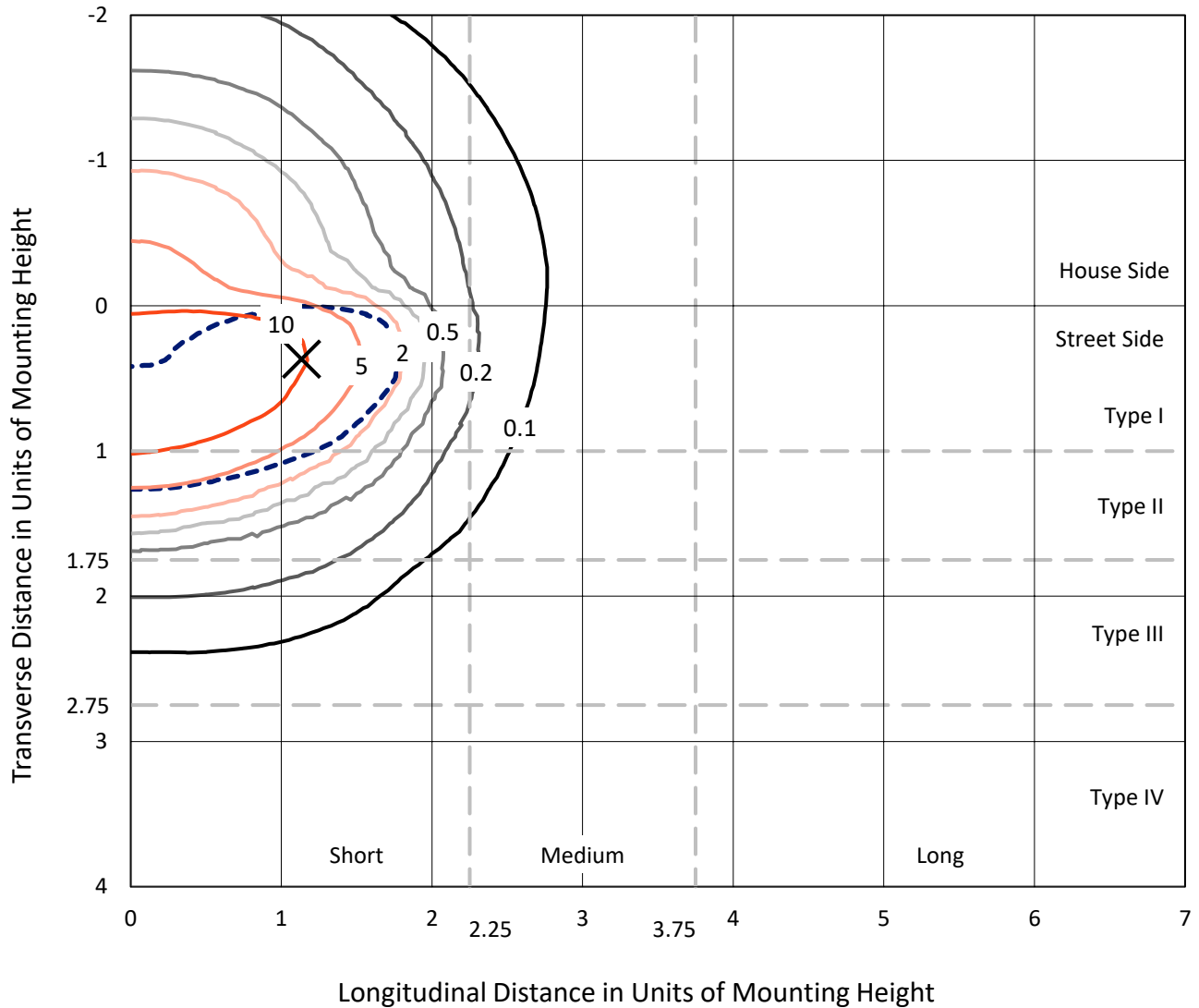
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

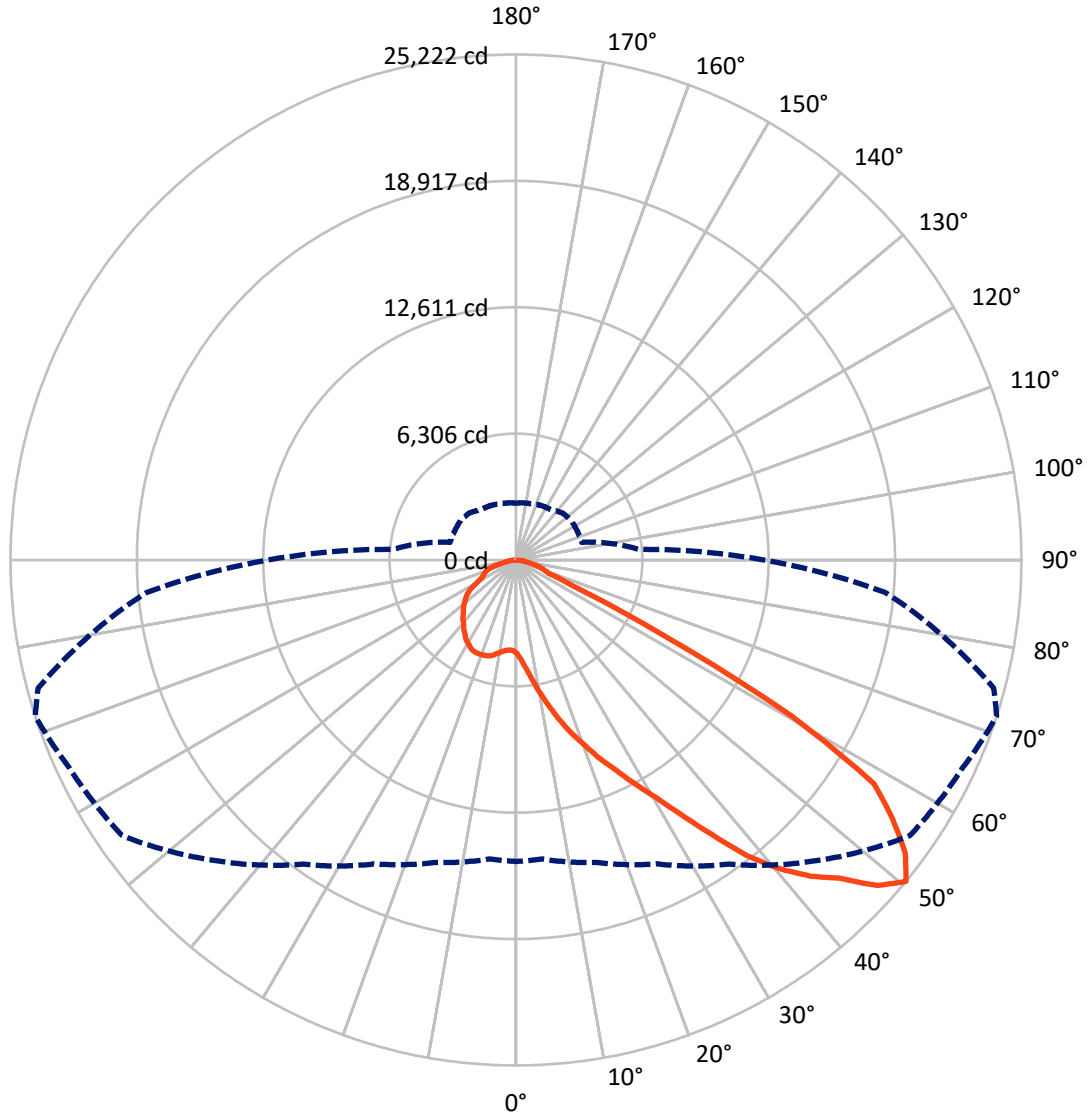
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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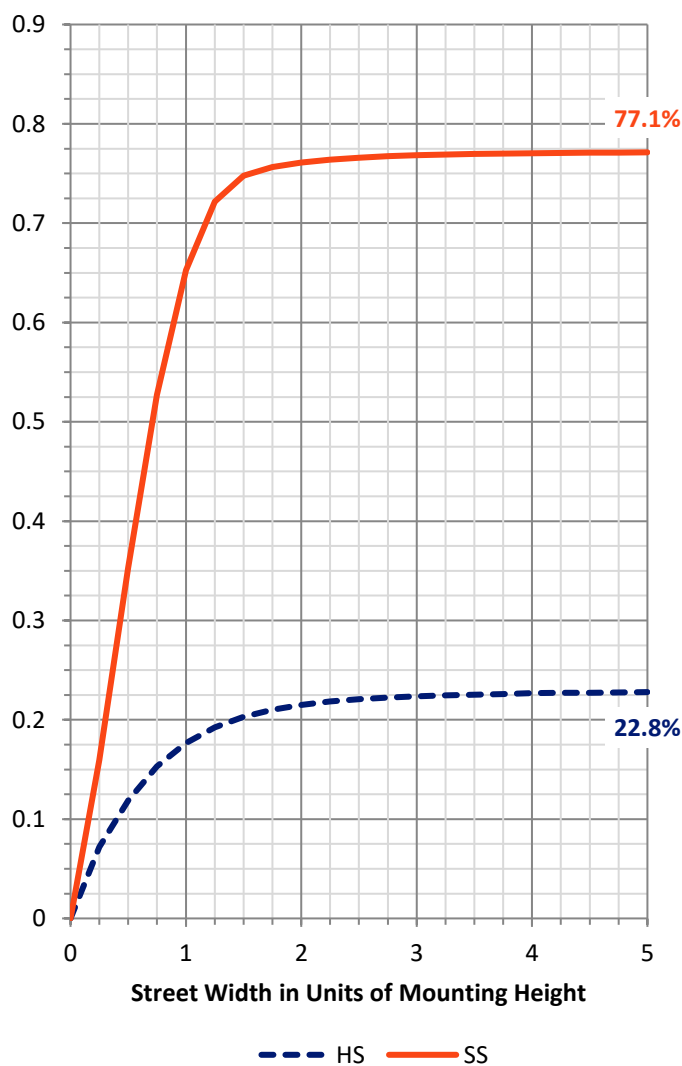
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7634.3	0.0	7634.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25687.7	0.0	25687.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	33322.0	0.0	33322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.6	1.6
10°-20°	2039.7	6.1
20°-30°	3954.9	11.9
30°-40°	6551.9	19.7
40°-50°	9167.6	27.5
50°-60°	7734.0	23.2
60°-70°	2357.3	7.1
70°-80°	827.0	2.5
80°-90°	143.8	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°	33322.0	100.0
0°-180°	33322.0	100.0

Coefficient of Utilization



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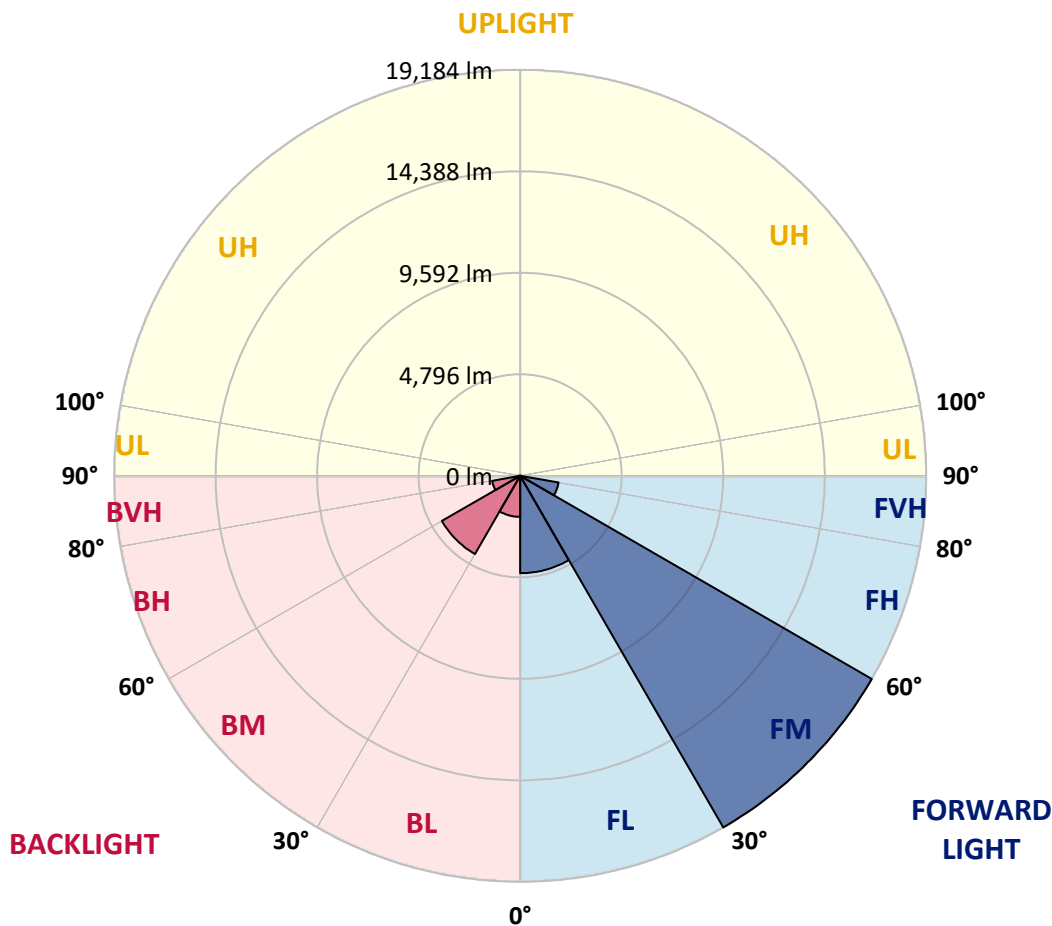
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4599.6	13.8			
FM (30°-60°)	19184.4	57.6			
FH (60°-80°)	1839.3	5.5			G2/5000
FVH (80°-90°)	64.4	0.2			G1/100
BL (0°-30°)	1940.7	5.8	B3/2500		
BM (30°-60°)	4269.2	12.8	B3/5000		
BH (60°-80°)	1345.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	79.4	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°	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7
2.5°	5966.4	5929.3	5818.0	5780.9	5648.9	5409.8	5327.3	5084.0	4980.9	4886.1	4774.8
5°	7545.6	7372.5	7360.1	7149.8	6844.7	6667.4	6139.6	5785.0	5459.2	5294.3	4989.2
7.5°	8551.7	8555.8	8555.8	8382.7	8139.4	7689.9	7215.8	6576.7	6086.0	5842.7	5323.2
10°	9508.3	9425.9	9380.5	9364.0	9199.1	8762.0	8254.8	7463.2	6791.1	6506.6	5574.7
12.5°	10184.5	10114.4	10217.5	10163.9	10044.3	9759.8	9281.5	8378.5	7537.4	7153.9	5978.8
15°	10506.2	10555.6	10638.1	10786.5	10732.9	10625.7	10097.9	9318.6	8341.4	7908.5	6337.5
17.5°	11001.0	10864.9	10963.8	11149.4	11297.8	11248.3	10947.3	9999.0	9137.2	8605.3	6819.9
20°	11347.3	11269.0	11318.4	11532.9	11644.2	11924.6	11767.9	10889.6	9900.0	9339.3	7388.9
22.5°	12336.9	12221.4	12060.6	12093.6	12134.9	12332.8	12369.9	11866.8	10786.5	10192.8	7929.1
25°	13557.4	13450.2	13260.5	13066.7	12947.1	12910.0	13037.9	12633.8	11635.9	11021.6	8510.5
27.5°	14901.6	14720.2	14600.6	14200.6	13879.0	13829.5	13767.7	13549.1	12642.0	11978.2	9166.1
30°	16208.7	16064.4	15903.5	15264.4	14930.5	14876.8	14571.7	14633.6	13734.7	12996.6	9908.3
32.5°	17198.3	17210.6	16843.7	16361.2	16047.9	15763.4	15652.0	15829.3	15136.6	14542.9	10737.1
35°	17998.2	18035.3	17684.8	17247.7	16909.6	17107.5	17058.1	17140.5	16810.7	16085.0	11701.9
37.5°	18777.5	18591.9	18216.7	18006.4	17829.1	18154.9	18575.4	18645.5	18707.4	17853.9	12823.4
40°	18905.3	18921.8	18703.3	18851.7	18629.0	19119.7	20096.9	20006.2	20257.7	19511.4	14039.8
42.5°	18723.9	18761.0	18847.6	19057.9	19593.9	20183.5	21634.9	21263.8	21569.0	20905.1	15223.2
45°	18427.0	18274.4	18381.6	19181.6	20109.3	21420.5	23041.0	22752.3	22653.4	22096.7	16633.4
47.5°	17008.6	17165.3	17499.3	18484.7	19878.4	21634.9	24038.8	23972.8	24269.7	23878.0	17915.7
50°	15041.8	14979.9	15623.2	16732.3	18530.1	21214.4	23985.2	24583.1	25222.2	24677.9	18488.9
52.5°	11264.8	11594.7	12147.2	13524.4	16089.1	18921.8	22814.2	23812.0	24331.6	24216.1	18027.0
55°	7120.9	7219.9	7553.9	9190.8	11499.9	15186.1	19556.8	21870.0	22797.7	23230.6	17602.3
57.5°	3459.4	3273.9	3682.1	4997.4	6642.6	10213.4	15083.0	19049.6	21065.9	21849.3	16678.7
60°	1806.0	1876.1	2036.9	2507.0	3434.7	5302.6	9401.1	12695.6	15775.7	16979.7	12642.0
62.5°	1496.8	1521.5	1628.7	1863.7	2284.3	3051.2	4799.5	6189.1	8044.5	9129.0	7191.0
65°	1270.0	1282.3	1397.8	1554.5	1822.5	2148.2	2469.9	2585.3	3129.6	3212.0	2556.4
67.5°	1059.7	1072.1	1195.8	1344.2	1517.4	1604.0	1686.4	1678.2	1740.0	1715.3	1711.2
70°	816.4	828.8	956.6	1113.3	1199.9	1150.4	1406.0	1463.8	1488.5	1509.1	1542.1
72.5°	589.6	614.4	713.3	824.7	779.3	894.8	1158.6	1245.2	1278.2	1290.6	1331.8
75°	428.8	437.1	461.8	428.8	494.8	622.6	816.4	923.6	964.9	977.2	1039.1
77.5°	189.7	193.8	197.9	247.4	317.5	387.6	486.5	573.1	630.9	647.4	663.9
80°	99.0	103.1	127.8	169.1	226.8	284.5	354.6	404.1	441.2	445.3	461.8
82.5°	61.8	66.0	90.7	119.6	160.8	210.3	259.8	301.0	329.9	334.0	338.1
85°	28.9	37.1	53.6	74.2	107.2	136.1	140.2	119.6	127.8	131.9	123.7
87.5°	8.2	12.4	16.5	12.4	16.5	16.5	20.6	24.7	24.7	24.7	28.9
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°	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7	4638.7
2.5°	4712.9	4675.8	4531.5	4477.9	4337.7	4362.4	4288.2	4284.1	4267.6	4263.5	4259.4
5°	4828.4	4712.9	4539.7	4407.8	4329.5	4321.2	4267.6	4267.6	4284.1	4296.5	4267.6
7.5°	5018.0	4886.1	4593.4	4469.7	4399.6	4387.2	4350.1	4321.2	4358.3	4346.0	4313.0
10°	5236.6	5005.7	4696.4	4589.2	4473.8	4444.9	4444.9	4457.3	4395.4	4416.0	4383.1
12.5°	5479.9	5170.6	4828.4	4704.7	4568.6	4552.1	4543.9	4453.2	4486.1	4469.7	4387.2
15°	5789.1	5360.3	4997.4	4787.1	4671.7	4597.5	4490.3	4473.8	4453.2	4411.9	4374.8
17.5°	6123.1	5566.4	5075.8	4811.9	4638.7	4585.1	4502.6	4416.0	4354.2	4362.4	4333.6
20°	6407.6	5756.1	5104.6	4836.6	4614.0	4510.9	4383.1	4329.5	4263.5	4259.4	4255.2
22.5°	6745.7	6011.8	5145.9	4770.7	4539.7	4432.5	4346.0	4251.1	4205.8	4148.0	4176.9
25°	7149.8	6110.7	5154.1	4733.5	4486.1	4296.5	4251.1	4148.0	4131.5	4049.1	4065.6
27.5°	7442.5	6164.3	5088.1	4618.1	4362.4	4218.1	4135.7	4061.4	4032.6	3970.7	3954.2
30°	7834.3	6246.8	4948.0	4473.8	4238.7	4077.9	4028.5	4012.0	3929.5	3863.5	3855.3
32.5°	8279.6	6300.4	4857.2	4325.3	4110.9	3987.2	4012.0	3933.6	3830.5	3772.8	3756.3
35°	8634.2	6321.0	4630.5	4156.3	4024.3	3946.0	3917.1	3900.6	3752.2	3698.6	3657.4
37.5°	9174.3	6275.7	4440.8	4036.7	3929.5	3900.6	3875.9	3764.6	3595.5	3517.2	3459.4
40°	9805.2	6263.3	4197.5	3867.7	3838.8	3871.8	3797.6	3624.4	3389.3	3302.8	3261.5
42.5°	10411.3	6349.9	4045.0	3776.9	3739.8	3752.2	3649.1	3389.3	3273.9	3224.4	3158.4
45°	11425.6	6531.3	3793.4	3636.7	3620.3	3612.0	3488.3	3216.2	3150.2	3088.3	3076.0
47.5°	12341.0	6411.7	3632.6	3492.4	3508.9	3463.6	3199.7	3113.1	3038.9	2977.0	2956.4
50°	12394.6	6127.2	3405.8	3381.1	3385.2	3306.9	3055.4	2997.6	2902.8	2861.6	2832.7
52.5°	12114.2	5661.3	3195.6	3203.8	3216.2	3088.3	2878.1	2836.8	2758.5	2700.8	2684.3
55°	11326.7	4935.6	2989.4	3022.4	3055.4	2812.1	2746.1	2643.0	2581.2	2498.7	2502.8
57.5°	9978.4	3974.9	2700.8	2754.4	2824.5	2556.4	2507.0	2379.1	2288.4	2222.5	2214.2
60°	6688.0	2828.6	2267.8	2288.4	2445.1	2337.9	2333.8	2206.0	2082.3	2024.5	1991.6
62.5°	3946.0	2160.6	1958.6	1937.9	1933.8	1995.7	2098.8	2053.4	1892.6	1781.3	1814.2
65°	2065.8	1867.9	1822.5	1752.4	1711.2	1694.7	1773.0	1793.6	1686.4	1566.9	1558.6
67.5°	1735.9	1735.9	1698.8	1674.1	1616.3	1546.2	1496.8	1430.8	1414.3	1381.3	1340.1
70°	1579.2	1620.5	1608.1	1550.4	1500.9	1422.5	1294.7	1187.5	1084.4	1047.3	1072.1
72.5°	1377.2	1418.4	1418.4	1389.6	1323.6	1204.0	1080.3	956.6	870.0	804.0	795.8
75°	1059.7	1080.3	1129.8	1096.8	1010.2	936.0	808.2	680.3	597.9	536.0	523.7
77.5°	676.2	709.2	709.2	705.1	643.2	573.1	490.7	400.0	338.1	292.8	280.4
80°	449.4	470.1	486.5	470.1	428.8	375.2	313.4	251.5	206.2	169.1	160.8
82.5°	329.9	354.6	367.0	350.5	309.2	268.0	222.7	177.3	131.9	103.1	94.8
85°	127.8	131.9	148.4	177.3	173.2	169.1	136.1	99.0	74.2	53.6	49.5
87.5°	33.0	28.9	33.0	33.0	28.9	24.7	24.7	24.7	24.7	12.4	16.5
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)