

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: P529948

Luminaire Tested: **GALN-SA5A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14270 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): 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

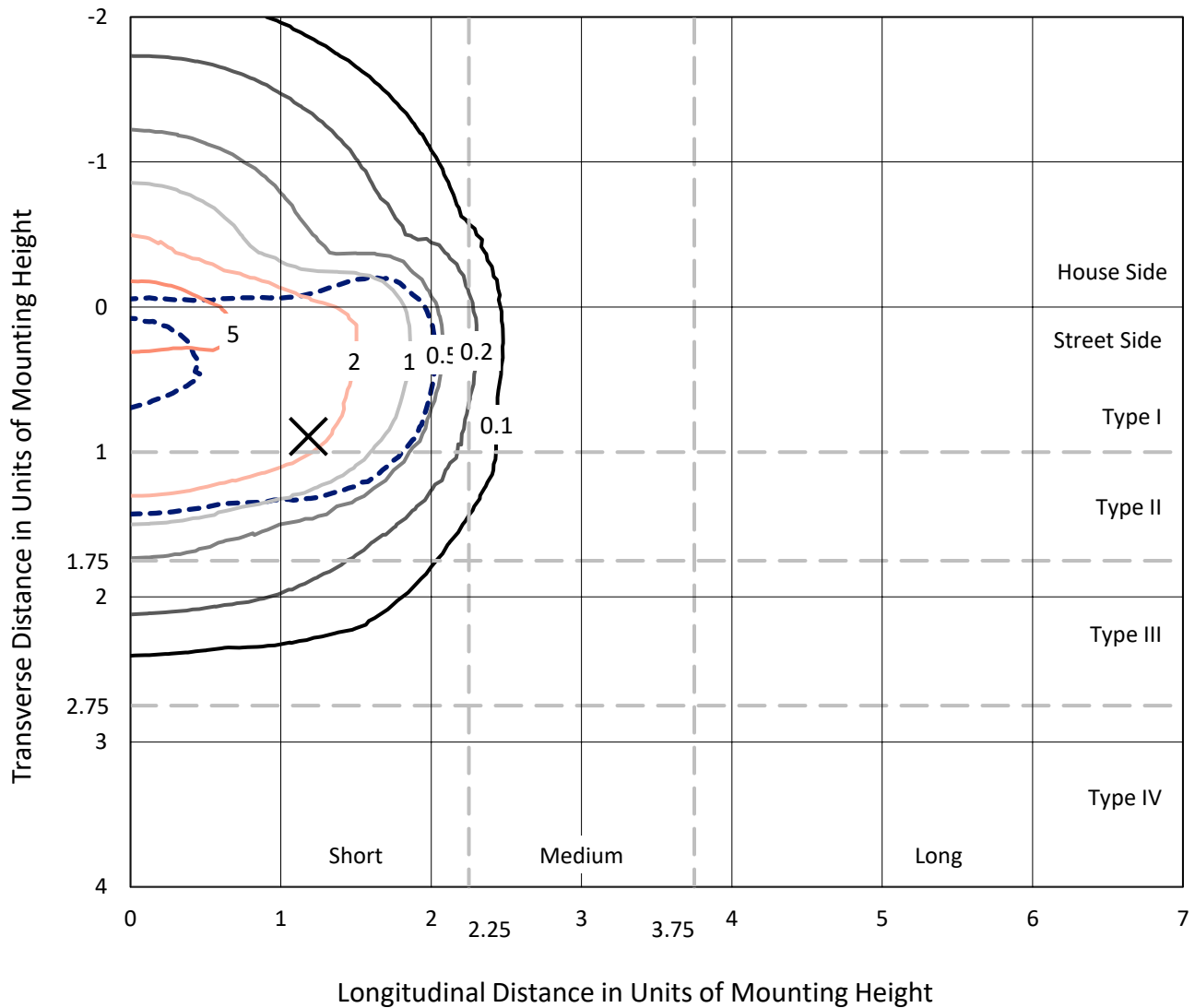




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Iso-Footcandle Lines of Horizontal Illumination

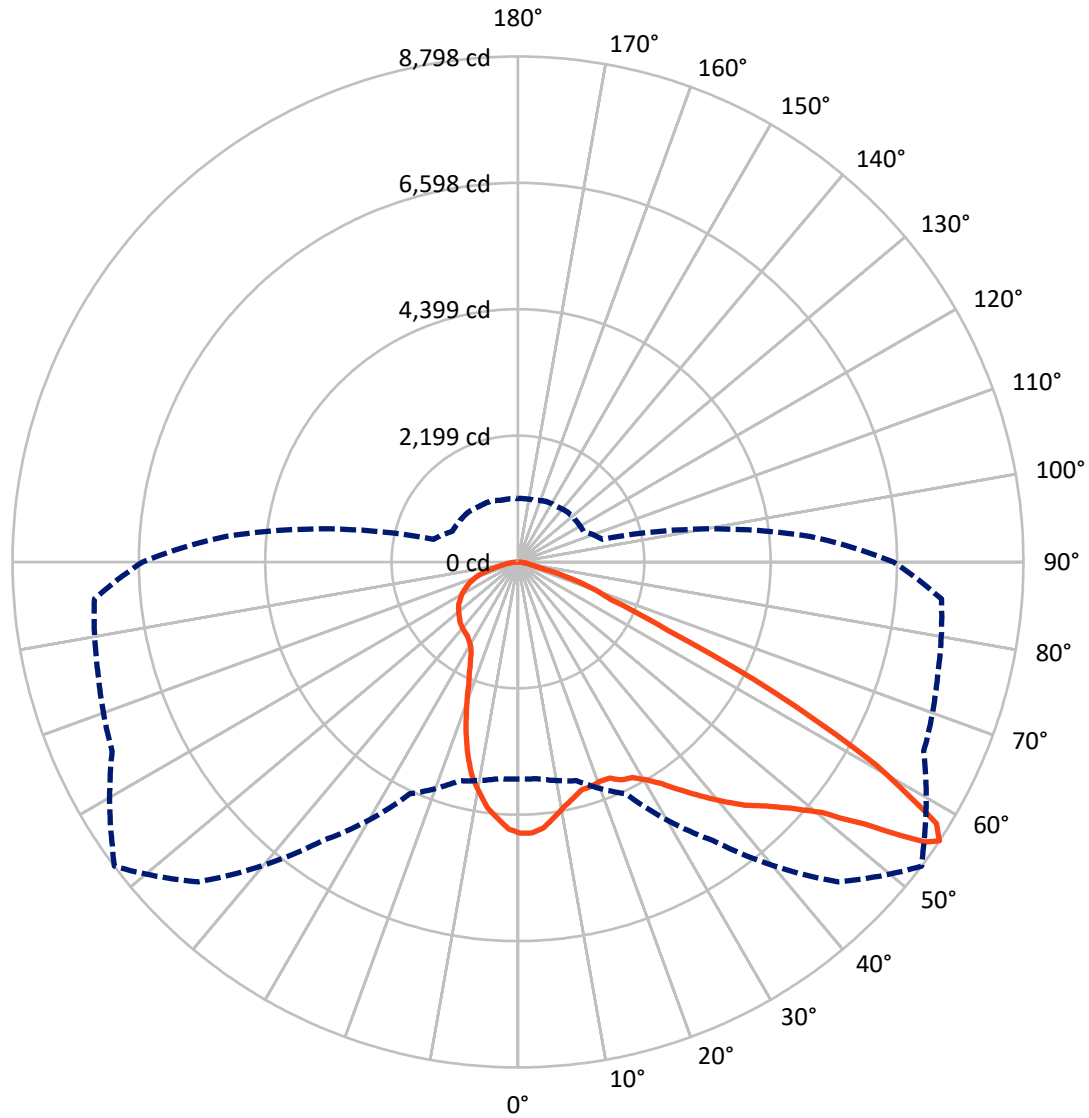
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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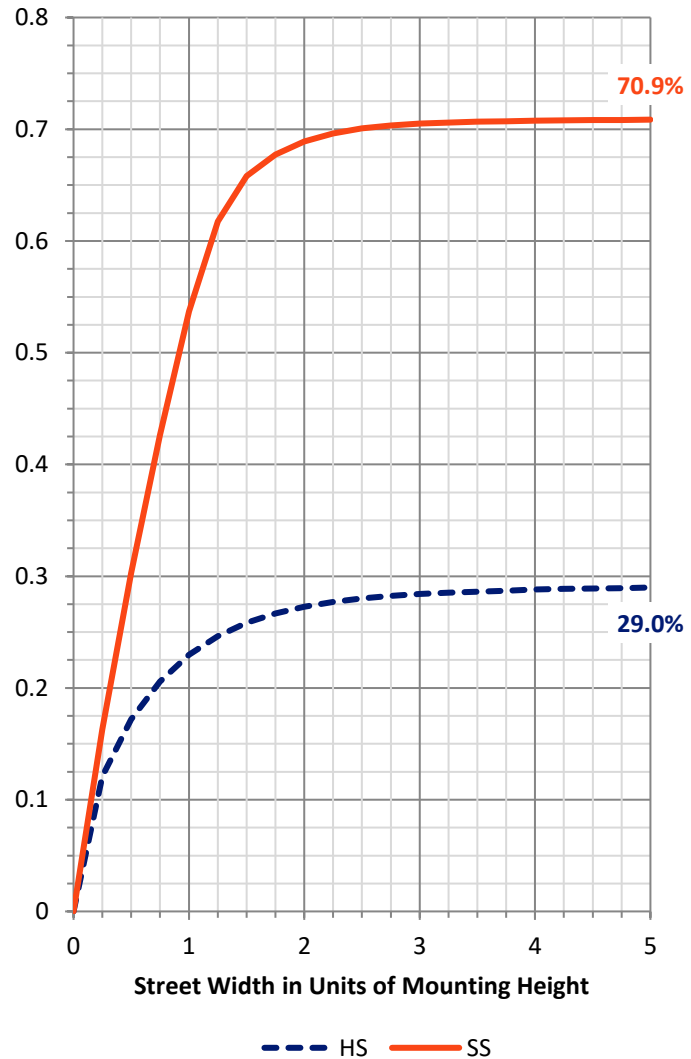
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.3	0.0	4164.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10105.7	0.0	10105.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	14270.0	0.0	14270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	2.9
10°-20°	1043.9	7.3
20°-30°	1539.3	10.8
30°-40°	2199.3	15.4
40°-50°	3027.0	21.2
50°-60°	3577.2	25.1
60°-70°	1906.4	13.4
70°-80°	483.6	3.4
80°-90°	75.4	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°	14270.0	100.0
0°-180°	14270.0	100.0

Coefficient of Utilization



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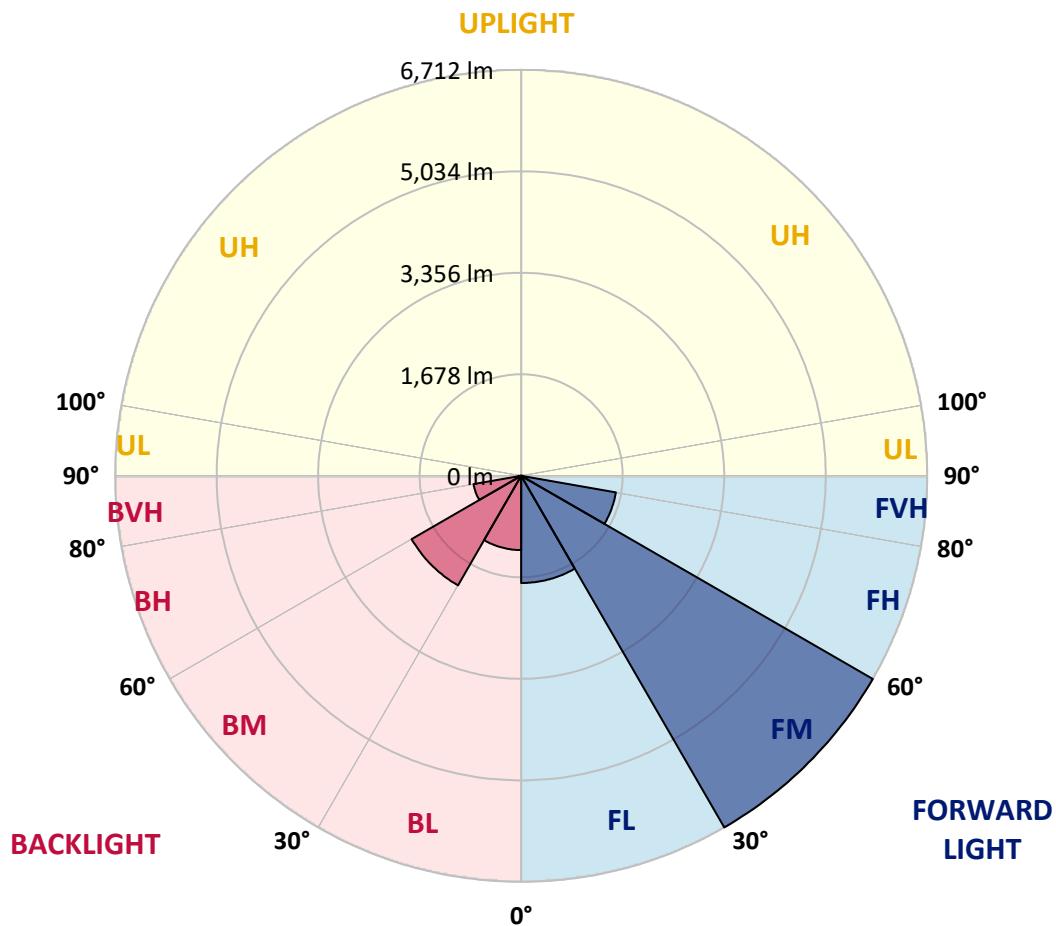
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.8	12.4			
FM (30°-60°)	6712.3	47.0			
FH (60°-80°)	1590.2	11.1			G1/1800
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	1228.2	8.6	B3/2500		
BM (30°-60°)	2091.2	14.7	B2/2500		
BH (60°-80°)	799.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	45.1	0.3			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°	53°	55°	65°	75°	85°
0°	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1
2.5°	4662.5	4622.2	4646.0	4636.9	4711.9	4733.9	4722.9	4732.1	4774.2	4754.0	4711.9
5°	4356.8	4413.5	4424.5	4452.0	4495.9	4582.0	4649.7	4668.0	4688.1	4781.5	4772.3
7.5°	4078.5	4117.0	4096.8	4177.4	4272.6	4411.7	4494.1	4508.7	4693.6	4744.9	4783.3
10°	3902.8	3864.4	3955.9	3977.9	4085.9	4245.1	4344.0	4404.4	4572.8	4776.0	4799.8
12.5°	3739.9	3727.1	3782.0	3844.2	3965.0	4129.8	4230.5	4254.3	4514.2	4728.4	4840.1
15°	3619.1	3604.4	3659.3	3705.1	3846.1	3992.5	4120.6	4188.4	4450.2	4700.9	4805.3
17.5°	3523.9	3522.0	3553.2	3635.5	3780.2	3902.8	4109.7	4113.3	4417.2	4743.0	4834.6
20°	3518.4	3516.6	3522.0	3613.6	3745.4	3895.5	4074.9	4107.8	4417.2	4713.8	4836.4
22.5°	3564.1	3534.9	3567.8	3626.4	3721.6	3908.3	4087.7	4160.9	4523.4	4858.4	4918.8
25°	3637.4	3644.7	3663.0	3683.1	3738.1	3937.6	4201.2	4261.6	4647.9	4982.9	5032.3
27.5°	3771.0	3767.3	3774.7	3785.6	3833.2	3965.0	4247.0	4402.6	4907.8	5204.4	5154.9
30°	3966.9	3954.1	3983.4	4021.8	3977.9	4052.9	4398.9	4516.1	5149.4	5427.7	5292.2
32.5°	4144.4	4192.0	4247.0	4263.4	4210.3	4225.0	4600.3	4719.2	5350.8	5702.3	5460.6
35°	4365.9	4404.4	4477.6	4528.9	4519.7	4475.8	4874.8	5032.3	5641.9	5903.6	5638.2
37.5°	4582.0	4627.7	4748.5	4900.5	4816.3	4796.1	5167.7	5297.7	5731.6	6011.6	5768.2
40°	4929.8	4927.9	5136.6	5215.3	5290.4	5255.6	5471.6	5515.6	5779.2	5987.8	5771.8
42.5°	5338.0	5312.4	5524.7	5647.4	5744.4	5748.0	5788.3	5773.7	5801.1	5867.0	5733.4
45°	5726.1	5781.0	5995.2	6214.8	6311.9	6322.8	6055.6	6028.1	5839.6	5832.2	5660.2
47.5°	6200.2	6213.0	6388.7	6678.0	6903.1	6826.3	6401.6	6341.1	6008.0	6064.7	5782.8
50°	6227.6	6322.8	6480.3	6820.8	7512.7	7492.6	6850.0	6736.6	6278.9	6394.2	6125.1
52.5°	5652.8	5630.9	5817.6	6374.1	7467.0	8155.3	7593.3	7322.3	6861.0	6773.2	6679.8
55°	4307.4	4358.6	4523.4	5085.4	6483.9	8164.4	8605.6	8384.1	7483.4	7333.3	7225.3
56°	3778.3	3785.6	3941.2	4453.8	5916.5	7873.3	8797.8	8618.4	7792.8	7564.0	7399.2
57.5°	3132.1	3090.0	3170.6	3450.7	4993.8	7258.3	8587.3	8763.0	8155.3	7812.9	7584.1
60°	2465.8	2456.6	2423.7	2475.0	3155.9	5468.0	7148.4	7543.8	8118.6	7578.6	7263.8
62.5°	2013.6	1967.9	2033.8	2107.0	2193.0	3392.1	5023.1	5255.6	6445.5	6050.1	5457.0
65°	1561.5	1539.5	1621.9	1859.9	1911.1	2154.6	2861.2	3040.6	3805.8	3738.1	3291.4
67.5°	1074.6	1078.2	1149.6	1512.1	1772.0	1750.0	1751.9	1845.2	1986.2	1475.5	1285.1
70°	681.0	679.1	717.6	973.9	1426.0	1440.7	1367.4	1340.0	1270.4	768.8	814.6
72.5°	437.5	424.7	444.8	538.2	737.7	853.1	878.7	895.2	735.9	604.1	655.3
75°	247.1	234.3	227.0	250.8	291.1	336.8	369.8	380.8	426.5	457.6	485.1
77.5°	75.1	67.7	82.4	109.8	144.6	194.0	236.1	243.5	287.4	324.0	351.5
80°	33.0	36.6	51.3	73.2	102.5	137.3	166.6	177.6	206.9	234.3	241.6
82.5°	20.1	22.0	34.8	49.4	71.4	97.0	119.0	122.6	151.9	173.9	179.4
85°	7.3	9.2	18.3	29.3	45.8	62.2	62.2	67.7	62.2	62.2	67.7
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	7.3	7.3	9.2	11.0	12.8
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°	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1	4721.1
2.5°	4733.9	4724.7	4710.1	4657.0	4651.5	4635.0	4543.5	4528.9	4543.5	4499.6	4503.2
5°	4724.7	4752.2	4642.4	4589.3	4490.4	4419.0	4336.7	4294.6	4219.5	4171.9	4225.0
7.5°	4765.0	4754.0	4616.7	4501.4	4353.1	4171.9	4027.3	3944.9	3813.1	3776.5	3804.0
10°	4750.4	4691.8	4530.7	4378.8	4098.7	3939.4	3705.1	3478.1	3353.6	3289.6	3280.4
12.5°	4730.2	4713.8	4444.7	4182.9	3888.2	3553.2	3223.7	3009.5	2806.3	2718.4	2731.2
15°	4754.0	4614.9	4283.6	3952.2	3560.5	3121.1	2766.0	2489.6	2348.6	2291.9	2291.9
17.5°	4743.0	4567.3	4206.7	3694.1	3198.0	2678.1	2288.2	2121.6	2063.1	2063.1	2079.5
20°	4748.5	4598.4	4051.1	3436.0	2769.7	2255.3	1971.5	1911.1	1936.8	1945.9	1955.1
22.5°	4779.7	4495.9	3899.1	3152.3	2372.4	1929.4	1790.3	1792.1	1837.9	1887.3	1878.2
25°	4818.1	4455.6	3714.3	2870.4	2068.6	1770.2	1726.2	1720.7	1755.5	1781.2	1784.8
27.5°	4785.1	4386.1	3525.7	2518.9	1819.6	1664.0	1654.8	1658.5	1669.5	1720.7	1704.3
30°	4893.2	4406.2	3289.6	2224.2	1682.3	1629.2	1618.2	1612.7	1629.2	1643.9	1631.1
32.5°	5026.8	4334.8	3113.8	1940.4	1614.6	1603.6	1581.6	1574.3	1583.5	1568.8	1576.1
35°	5085.4	4322.0	2885.0	1737.2	1561.5	1552.3	1539.5	1537.7	1539.5	1526.7	1515.7
37.5°	5118.3	4382.4	2623.2	1643.9	1528.5	1537.7	1508.4	1504.7	1471.8	1479.1	1484.6
40°	5175.1	4289.1	2410.9	1554.2	1508.4	1490.1	1464.5	1459.0	1437.0	1424.2	1437.0
42.5°	5092.7	4261.6	2202.2	1515.7	1479.1	1459.0	1440.7	1409.6	1402.2	1391.2	1383.9
45°	5026.8	4104.2	2015.5	1468.1	1444.3	1433.3	1398.6	1365.6	1338.2	1349.1	1332.7
47.5°	5076.2	4049.3	1830.6	1427.9	1396.7	1383.9	1349.1	1323.5	1296.1	1283.2	1279.6
50°	5273.9	4151.8	1675.0	1398.6	1356.5	1349.1	1303.4	1274.1	1248.5	1239.3	1243.0
52.5°	5746.2	4431.8	1568.8	1338.2	1318.0	1285.1	1259.4	1222.8	1206.4	1177.1	1195.4
55°	6344.8	4887.7	1541.4	1281.4	1270.4	1241.1	1206.4	1178.9	1147.8	1124.0	1118.5
56°	6537.0	5105.5	1519.4	1259.4	1241.1	1224.7	1178.9	1162.4	1113.0	1107.5	1103.8
57.5°	6692.6	5297.7	1523.0	1217.3	1199.0	1184.4	1156.9	1116.7	1083.7	1063.6	1072.7
60°	6341.1	4959.1	1453.5	1153.3	1149.6	1122.1	1083.7	1065.4	1025.1	1001.3	995.8
62.5°	4713.8	3366.4	1178.9	1070.9	1069.1	1039.8	995.8	975.7	968.4	935.4	935.4
65°	2714.8	2110.7	1019.6	1003.2	988.5	959.2	915.3	898.8	880.5	869.5	860.4
67.5°	1158.8	1094.7	926.3	924.4	908.0	871.4	827.4	801.8	778.0	756.0	767.0
70°	840.2	853.1	836.6	827.4	807.3	761.5	723.1	692.0	655.3	640.7	651.7
72.5°	666.3	693.8	717.6	719.4	695.6	642.5	600.4	558.3	518.1	497.9	507.1
75°	505.2	523.5	547.3	552.8	518.1	481.4	441.2	397.2	366.1	342.3	346.0
77.5°	364.3	360.6	382.6	378.9	362.5	336.8	300.2	259.9	225.2	203.2	205.0
80°	249.0	254.5	267.3	265.4	245.3	228.8	201.4	168.4	142.8	124.5	120.8
82.5°	173.9	183.1	194.0	184.9	168.4	151.9	131.8	108.0	87.9	73.2	69.6
85°	62.2	71.4	82.4	87.9	93.4	89.7	75.1	60.4	43.9	36.6	34.8
87.5°	12.8	14.6	16.5	16.5	16.5	14.6	12.8	12.8	11.0	5.5	5.5
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)