

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: P647325

Luminaire Tested: **GALN-SA3D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647325
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-SA3D-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 15326.4 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

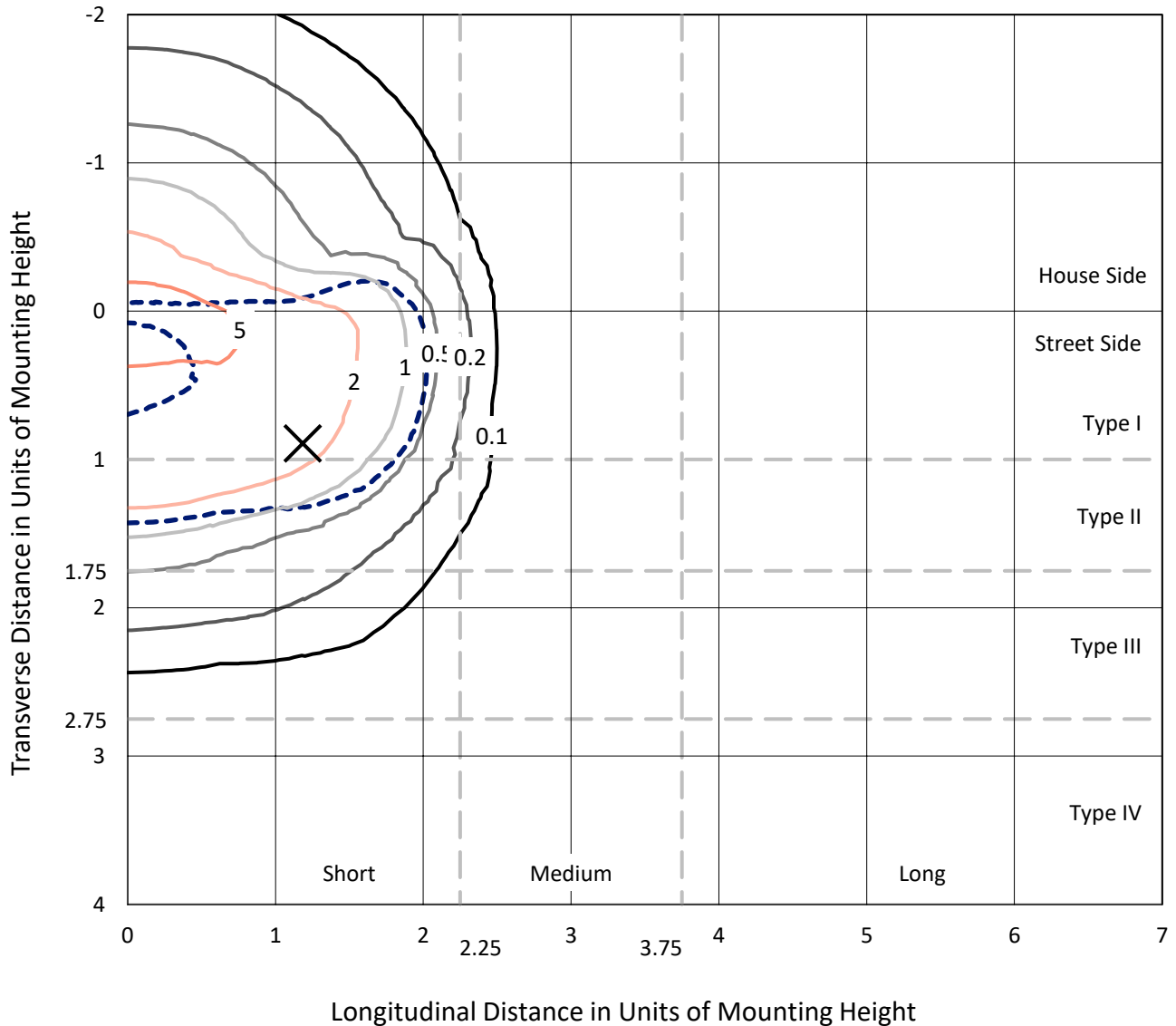
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

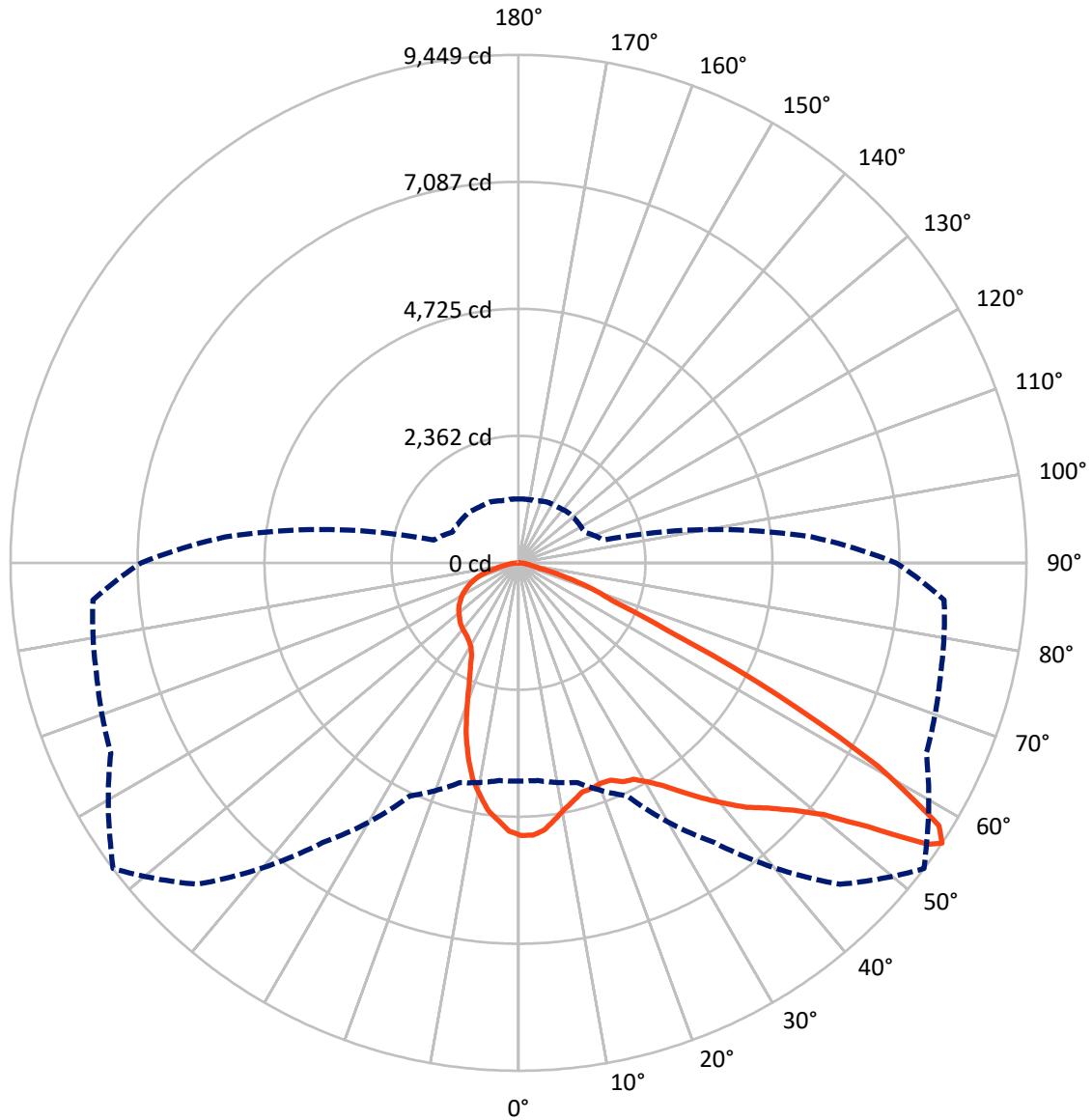
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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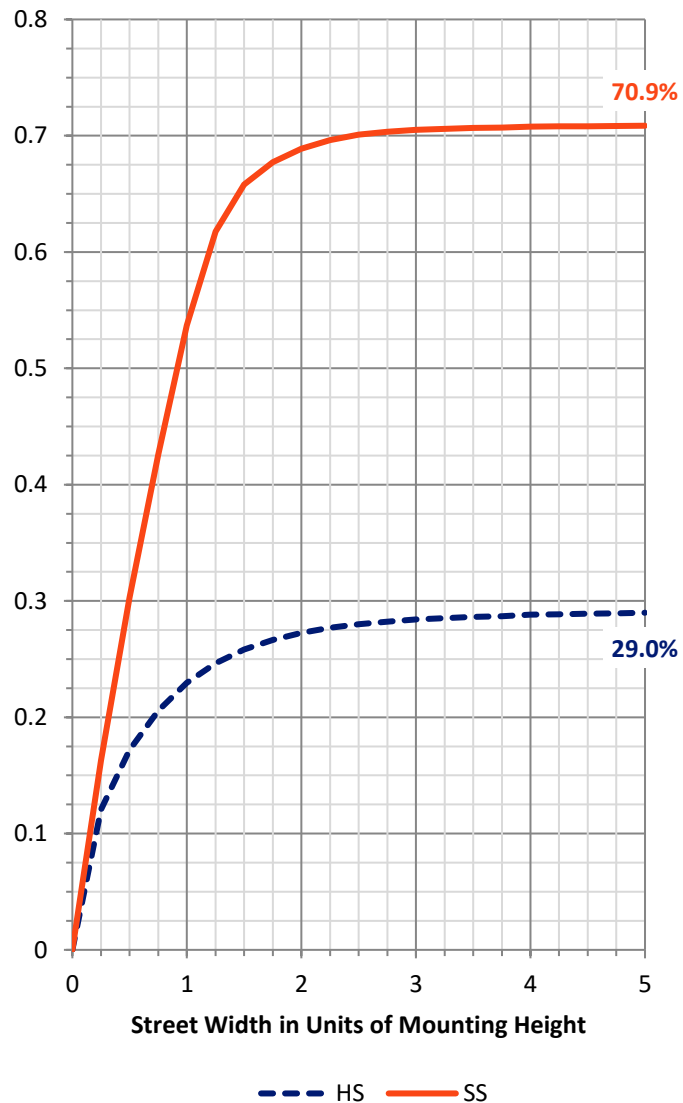
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4472.6	0.0	4472.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10853.9	0.0	10853.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	15326.4	0.0	15326.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.9	2.9
10°-20°	1121.1	7.3
20°-30°	1653.2	10.8
30°-40°	2362.1	15.4
40°-50°	3251.1	21.2
50°-60°	3842.0	25.1
60°-70°	2047.5	13.4
70°-80°	519.4	3.4
80°-90°	81.0	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°	15326.4	100.0
0°-180°	15326.4	100.0

Coefficient of Utilization

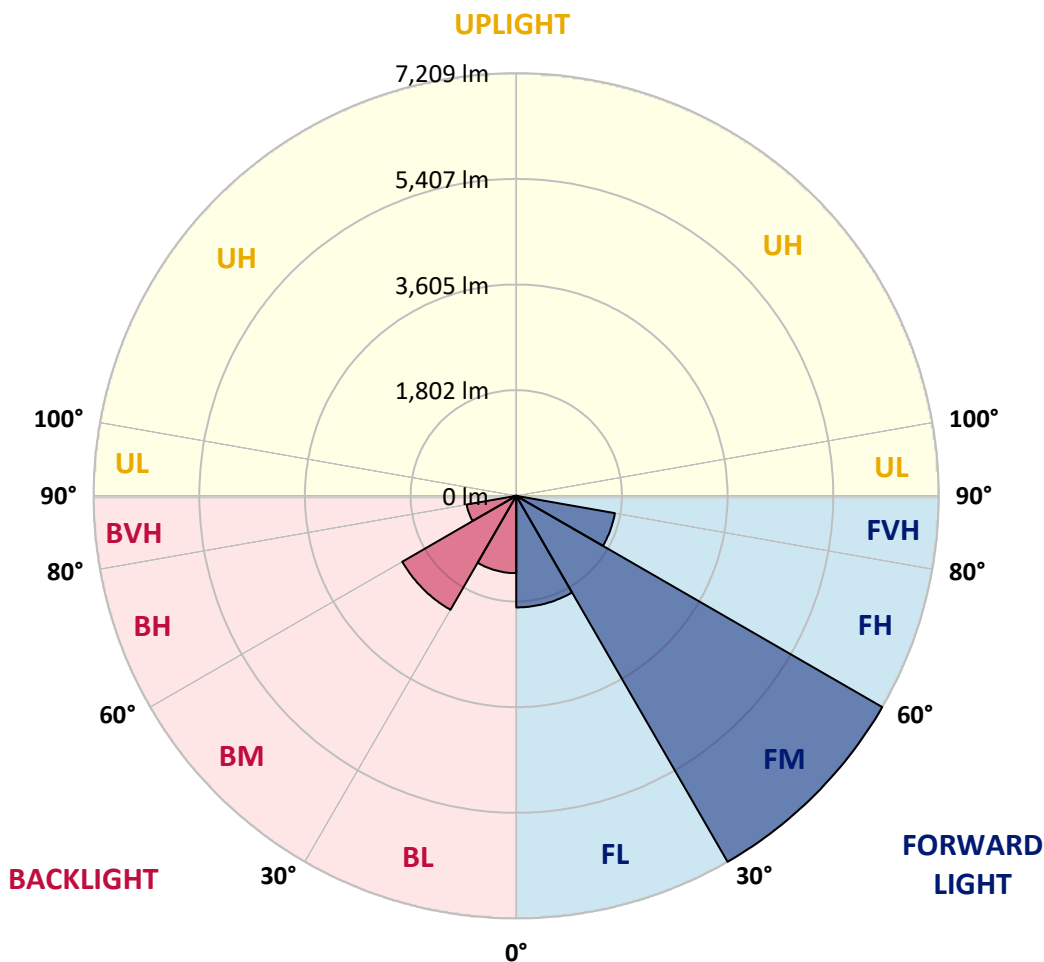


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.1	12.4			
FM (30°-60°)	7209.3	47.0			
FH (60°-80°)	1707.9	11.1			G1/1800
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	1319.1	8.6	B3/2500		
BM (30°-60°)	2246.0	14.7	B2/2500		
BH (60°-80°)	859.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	48.4	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°	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6
2.5°	5007.7	4964.5	4990.0	4980.1	5060.8	5084.3	5072.6	5082.4	5127.6	5105.9	5060.8
5°	4679.4	4740.3	4752.1	4781.5	4828.8	4921.2	4993.9	5013.5	5035.2	5135.5	5125.7
7.5°	4380.5	4421.8	4400.1	4486.7	4588.9	4738.3	4826.8	4842.5	5041.1	5096.2	5137.4
10°	4191.7	4150.4	4248.8	4272.4	4388.3	4559.4	4665.6	4730.4	4911.4	5129.6	5155.1
12.5°	4016.8	4003.0	4062.0	4128.8	4258.6	4435.5	4543.7	4569.2	4848.4	5078.5	5198.4
15°	3887.0	3871.2	3930.3	3979.4	4130.8	4288.1	4425.7	4498.5	4779.6	5048.9	5161.1
17.5°	3784.8	3782.8	3816.2	3904.7	4060.0	4191.7	4413.9	4417.8	4744.2	5094.2	5192.5
20°	3778.8	3776.9	3782.8	3881.1	4022.7	4183.9	4376.6	4412.0	4744.2	5062.7	5194.4
22.5°	3828.0	3796.5	3831.9	3894.9	3997.1	4197.7	4390.3	4469.0	4858.3	5218.1	5282.9
25°	3906.6	3914.5	3934.2	3955.8	4014.8	4229.1	4512.2	4577.1	4991.9	5351.7	5404.8
27.5°	4050.1	4046.2	4054.1	4065.9	4117.0	4258.6	4561.4	4728.5	5271.2	5589.7	5536.6
30°	4260.5	4246.8	4278.2	4319.6	4272.4	4352.9	4724.5	4850.4	5530.6	5829.5	5684.0
32.5°	4451.3	4502.4	4561.4	4579.1	4522.1	4537.8	4940.8	5068.6	5746.9	6124.4	5864.9
35°	4689.2	4730.4	4809.1	4864.2	4854.3	4807.2	5235.8	5404.8	6059.6	6340.7	6055.6
37.5°	4921.2	4970.3	5100.1	5263.2	5172.8	5151.2	5550.3	5689.9	6155.9	6456.7	6195.2
40°	5294.7	5292.8	5516.9	5601.4	5682.1	5644.7	5876.7	5923.9	6207.0	6431.2	6199.2
42.5°	5733.2	5705.6	5933.7	6065.4	6169.6	6173.6	6216.9	6201.1	6230.6	6301.3	6157.8
45°	6150.0	6209.0	6439.0	6674.9	6779.1	6791.0	6503.9	6474.4	6271.9	6264.0	6079.2
47.5°	6659.2	6673.0	6861.7	7172.4	7414.2	7331.6	6875.4	6810.6	6452.8	6513.7	6210.9
50°	6688.7	6791.0	6960.0	7325.7	8068.9	8047.3	7357.1	7235.3	6743.7	6867.6	6578.6
52.5°	6071.3	6047.7	6248.3	6846.0	8019.7	8759.0	8155.4	7864.5	7369.0	7274.6	7174.3
55°	4626.3	4681.3	4858.3	5461.8	6963.9	8768.8	9242.7	9004.7	8037.4	7876.2	7760.2
56°	4058.1	4065.9	4233.1	4783.5	6354.4	8456.2	9449.1	9256.5	8369.7	8123.9	7947.0
57.5°	3364.0	3318.8	3405.3	3706.1	5363.6	7795.6	9223.0	9411.7	8759.0	8391.3	8145.5
60°	2648.3	2638.6	2603.2	2658.2	3389.6	5872.7	7677.6	8102.3	8719.7	8139.7	7801.5
62.5°	2162.7	2113.6	2184.3	2263.0	2355.4	3643.2	5395.0	5644.7	6922.7	6498.0	5861.0
65°	1677.1	1653.5	1741.9	1997.6	2052.6	2314.1	3073.0	3265.7	4087.6	4014.8	3535.1
67.5°	1154.1	1158.1	1234.7	1624.0	1903.2	1879.6	1881.5	1981.9	2133.2	1584.7	1380.2
70°	731.4	729.4	770.7	1045.9	1531.6	1547.4	1468.7	1439.2	1364.5	825.8	874.9
72.5°	469.9	456.2	477.8	578.0	792.3	916.2	943.7	961.4	790.4	648.8	703.8
75°	265.4	251.7	243.8	269.4	312.6	361.7	397.1	409.0	458.1	491.5	521.0
77.5°	80.6	72.7	88.5	118.0	155.3	208.4	253.6	261.5	308.7	348.0	377.5
80°	35.4	39.3	55.0	78.6	110.1	147.4	178.9	190.7	222.1	251.7	259.6
82.5°	21.6	23.6	37.3	53.1	76.7	104.2	127.8	131.7	163.2	186.7	192.7
85°	7.8	9.9	19.7	31.5	49.2	66.9	66.9	72.7	66.9	66.9	72.7
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	7.8	7.8	9.9	11.8	13.8
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°	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6	5070.6
2.5°	5084.3	5074.5	5058.8	5001.8	4995.9	4978.2	4879.9	4864.2	4879.9	4832.7	4836.6
5°	5074.5	5104.0	4986.1	4929.1	4822.9	4746.2	4657.7	4612.5	4531.8	4480.8	4537.8
7.5°	5117.8	5105.9	4958.5	4834.6	4675.4	4480.8	4325.4	4237.0	4095.4	4056.1	4085.5
10°	5102.0	5039.2	4866.1	4702.9	4402.1	4231.1	3979.4	3735.6	3601.9	3533.1	3523.3
12.5°	5080.4	5062.7	4773.7	4492.5	4176.0	3816.2	3462.3	3232.3	3014.1	2919.7	2933.4
15°	5105.9	4956.5	4600.7	4244.8	3824.1	3352.2	2970.8	2673.9	2522.5	2461.6	2461.6
17.5°	5094.2	4905.4	4518.1	3967.6	3434.8	2876.4	2457.6	2278.7	2215.8	2215.8	2233.5
20°	5100.1	4938.9	4351.0	3690.4	2974.7	2422.2	2117.5	2052.6	2080.1	2090.0	2099.8
22.5°	5133.5	4828.8	4187.8	3385.6	2548.0	2072.3	1922.9	1924.8	1973.9	2027.0	2017.2
25°	5174.8	4785.5	3989.2	3082.8	2221.7	1901.2	1854.1	1848.1	1885.5	1913.0	1916.9
27.5°	5139.4	4710.8	3786.7	2705.3	1954.3	1787.2	1777.3	1781.3	1793.1	1848.1	1830.4
30°	5255.4	4732.5	3533.1	2388.9	1806.9	1749.8	1738.0	1732.2	1749.8	1765.6	1751.8
32.5°	5398.9	4655.7	3344.3	2084.1	1734.1	1722.3	1698.7	1690.9	1700.7	1684.9	1692.8
35°	5461.8	4642.0	3098.6	1865.8	1677.1	1667.2	1653.5	1651.5	1653.5	1639.8	1627.9
37.5°	5497.2	4706.8	2817.5	1765.6	1641.7	1651.5	1620.1	1616.1	1580.7	1588.6	1594.5
40°	5558.2	4606.6	2589.4	1669.2	1620.1	1600.4	1572.9	1567.0	1543.4	1529.7	1543.4
42.5°	5469.7	4577.1	2365.2	1627.9	1588.6	1567.0	1547.4	1513.9	1506.0	1494.3	1486.4
45°	5398.9	4408.0	2164.7	1576.8	1551.3	1539.5	1502.1	1466.7	1437.2	1449.0	1431.3
47.5°	5452.0	4349.0	1966.1	1533.6	1500.1	1486.4	1449.0	1421.5	1392.0	1378.2	1374.3
50°	5664.4	4459.1	1799.0	1502.1	1456.8	1449.0	1399.8	1368.4	1340.9	1331.0	1335.0
52.5°	6171.6	4759.9	1684.9	1437.2	1415.6	1380.2	1352.7	1313.3	1295.6	1264.2	1283.9
55°	6814.5	5249.5	1655.5	1376.3	1364.5	1333.1	1295.6	1266.2	1232.8	1207.2	1201.3
56°	7021.0	5483.5	1631.9	1352.7	1333.1	1315.4	1266.2	1248.5	1195.4	1189.5	1185.5
57.5°	7188.1	5689.9	1635.8	1307.5	1287.8	1272.1	1242.5	1199.3	1163.9	1142.3	1152.1
60°	6810.6	5326.2	1561.1	1238.6	1234.7	1205.2	1163.9	1144.3	1101.1	1075.5	1069.6
62.5°	5062.7	3615.7	1266.2	1150.1	1148.2	1116.7	1069.6	1048.0	1040.1	1004.7	1004.7
65°	2915.7	2266.9	1095.1	1077.4	1061.7	1030.3	983.1	965.4	945.7	933.9	924.1
67.5°	1244.6	1175.8	994.9	992.9	975.2	935.8	888.7	861.1	835.6	812.0	823.8
70°	902.4	916.2	898.5	888.7	867.0	817.9	776.6	743.2	703.8	688.1	699.9
72.5°	715.7	745.2	770.7	772.7	747.1	690.1	644.9	599.7	556.4	534.8	544.6
75°	542.6	562.3	587.9	593.7	556.4	517.1	473.8	426.7	393.2	367.7	371.6
77.5°	391.3	387.4	410.9	407.0	389.3	361.7	322.4	279.2	241.9	218.2	220.2
80°	267.4	273.3	287.0	285.1	263.5	245.8	216.3	180.9	153.4	133.7	129.7
82.5°	186.7	196.6	208.4	198.6	180.9	163.2	141.6	116.0	94.4	78.6	74.7
85°	66.9	76.7	88.5	94.4	100.3	96.3	80.6	64.9	47.2	39.3	37.3
87.5°	13.8	15.7	17.7	17.7	17.7	15.7	13.8	13.8	11.8	5.9	5.9
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)