

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: P528414

Luminaire Tested: **GALN-SA3C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528414
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-SA3C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 16201 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

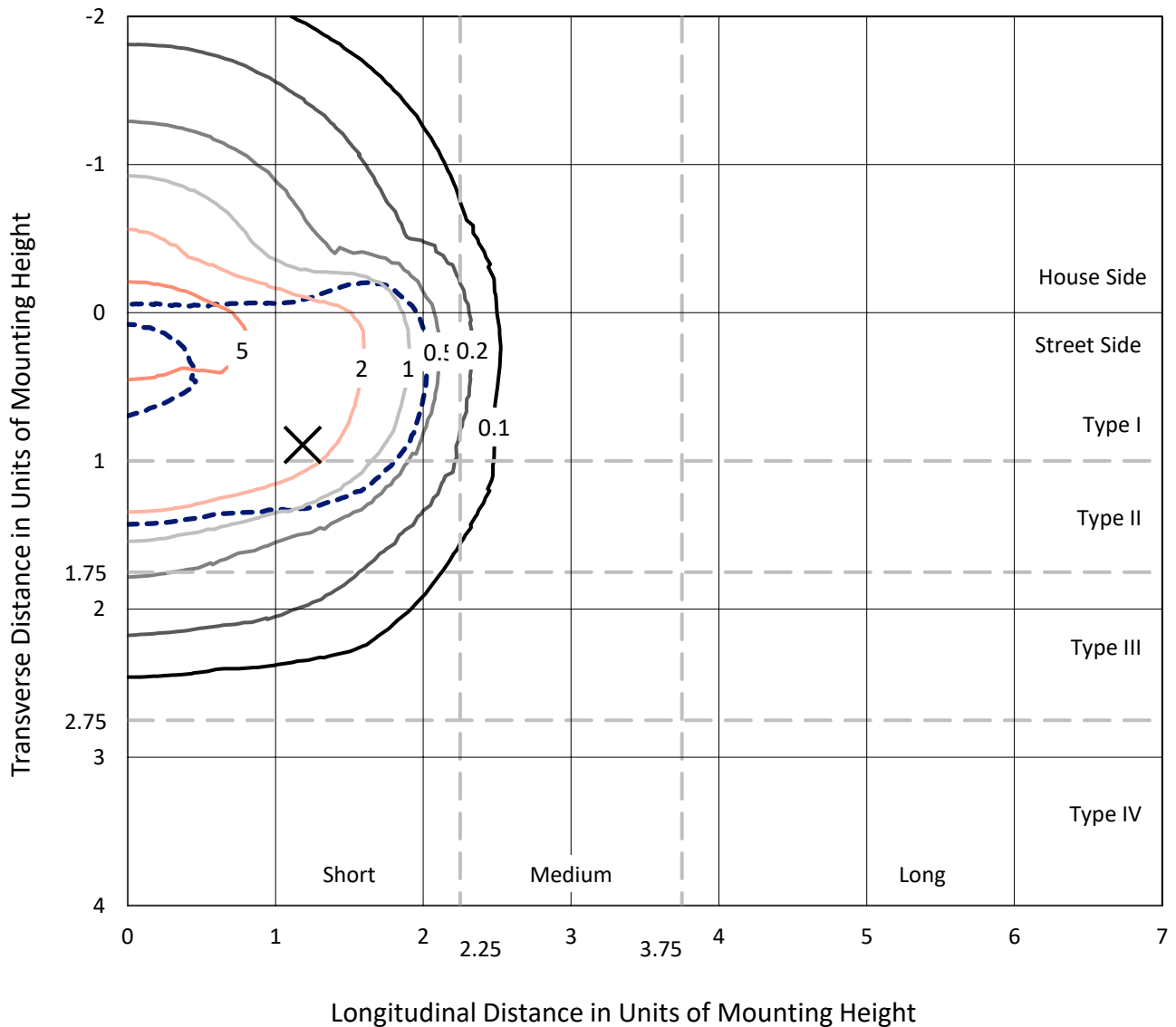
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

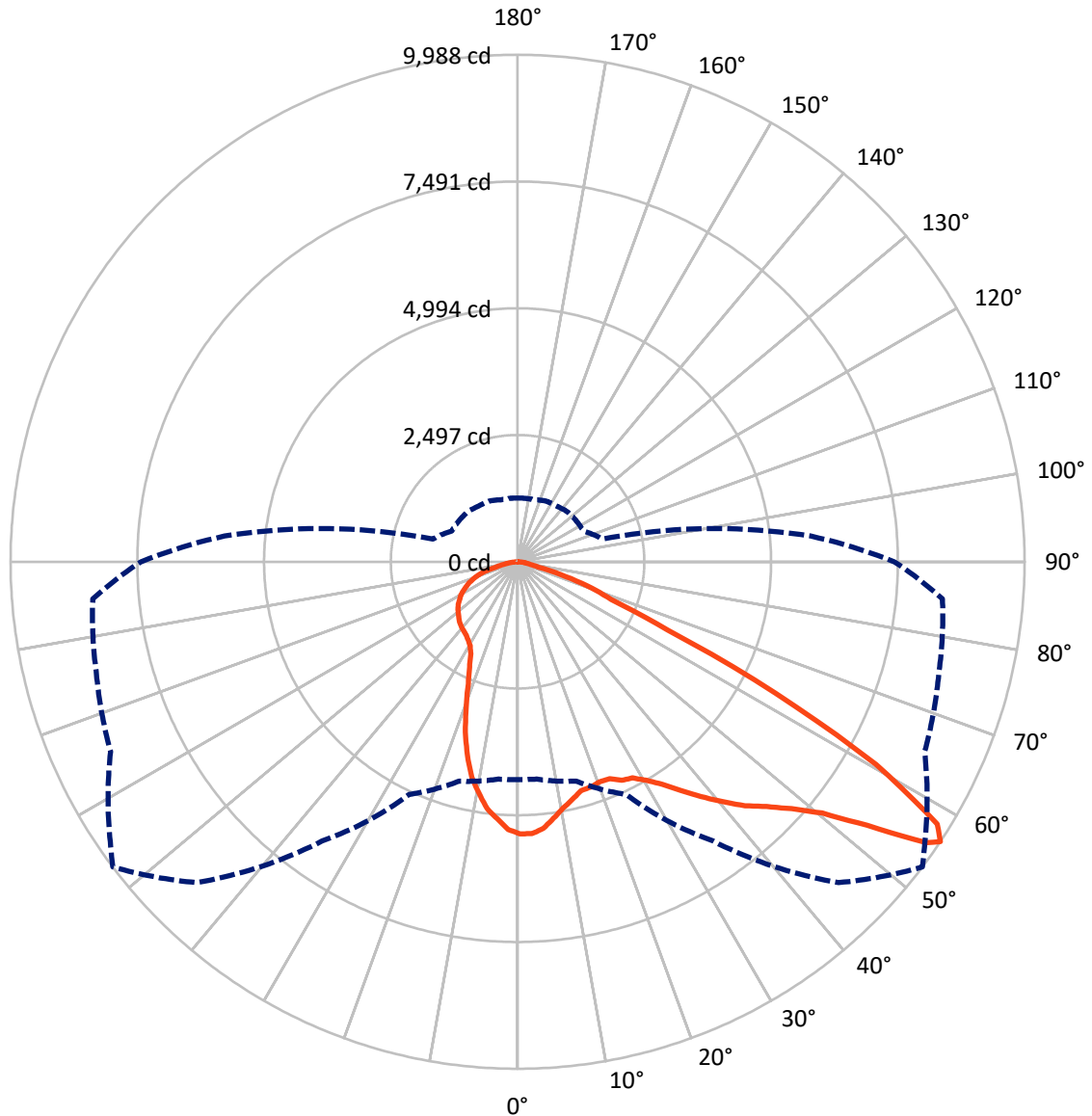
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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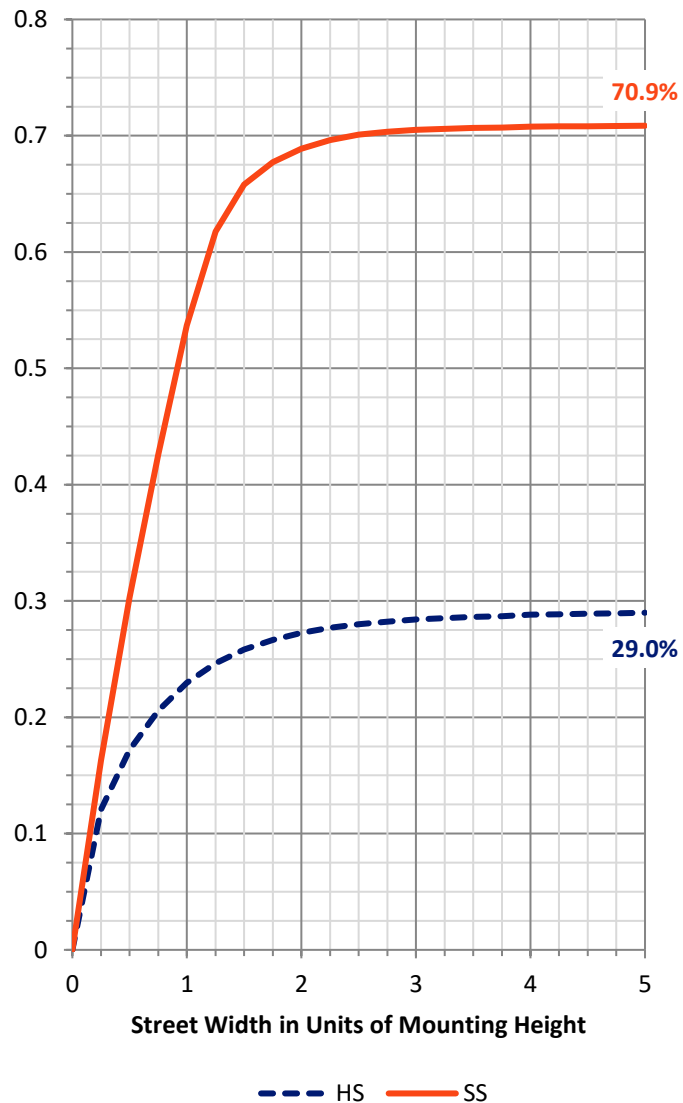
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4727.8	0.0	4727.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11473.2	0.0	11473.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	16201.0	0.0	16201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.5	2.9
10°-20°	1185.1	7.3
20°-30°	1747.6	10.8
30°-40°	2496.9	15.4
40°-50°	3436.7	21.2
50°-60°	4061.2	25.1
60°-70°	2164.4	13.4
70°-80°	549.1	3.4
80°-90°	85.6	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°	16201.0	100.0
0°-180°	16201.0	100.0

Coefficient of Utilization

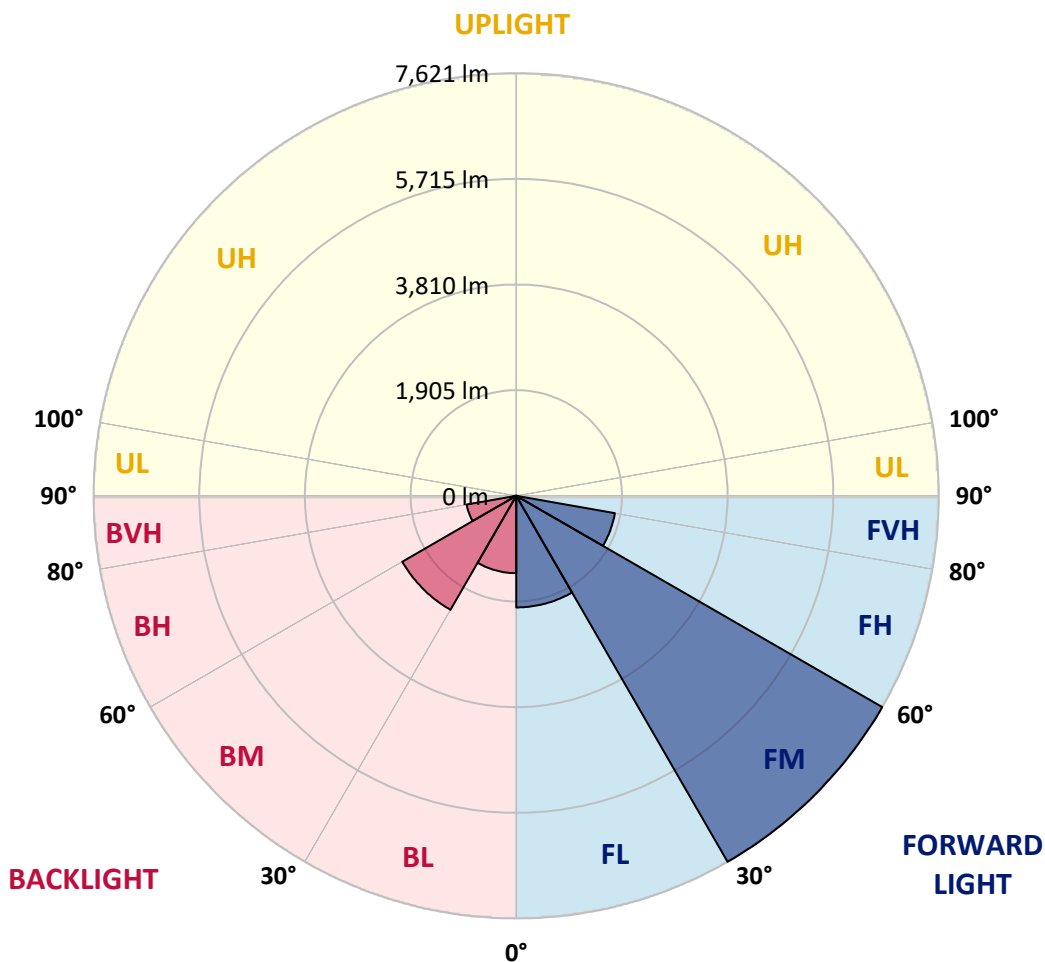


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2012.7	12.4			
FM (30°-60°)	7620.6	47.0			
FH (60°-80°)	1805.4	11.1			G2/5000
FVH (80°-90°)	34.4	0.2			G1/100
BL (0°-30°)	1394.4	8.6	B3/2500		
BM (30°-60°)	2374.1	14.7	B2/2500		
BH (60°-80°)	908.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.2	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°	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9
2.5°	5293.4	5247.7	5274.7	5264.3	5349.5	5374.5	5362.0	5372.4	5420.2	5397.3	5349.5
5°	4946.3	5010.8	5023.2	5054.4	5104.3	5202.0	5278.9	5299.7	5322.5	5428.5	5418.1
7.5°	4630.4	4674.1	4651.2	4742.7	4850.7	5008.7	5102.2	5118.8	5328.8	5386.9	5430.6
10°	4430.9	4387.3	4491.2	4516.1	4638.8	4819.6	4931.8	5000.4	5191.6	5422.3	5449.3
12.5°	4246.0	4231.4	4293.8	4364.4	4501.6	4688.6	4802.9	4830.0	5125.1	5368.2	5495.0
15°	4108.8	4092.2	4154.5	4206.5	4366.5	4532.8	4678.2	4755.1	5052.3	5337.1	5455.5
17.5°	4000.7	3998.6	4034.0	4127.5	4291.7	4430.9	4665.8	4669.9	5014.9	5384.9	5488.8
20°	3994.5	3992.4	3998.6	4102.6	4252.2	4422.6	4626.3	4663.7	5014.9	5351.6	5490.9
22.5°	4046.4	4013.2	4050.6	4117.1	4225.2	4437.2	4640.8	4724.0	5135.5	5515.8	5584.4
25°	4129.6	4137.9	4158.7	4181.5	4243.9	4470.4	4769.7	4838.3	5276.8	5657.1	5713.2
27.5°	4281.3	4277.1	4285.4	4297.9	4352.0	4501.6	4821.7	4998.3	5571.9	5908.6	5852.5
30°	4503.7	4489.1	4522.4	4566.0	4516.1	4601.4	4994.1	5127.2	5846.3	6162.2	6008.4
32.5°	4705.3	4759.3	4821.7	4840.4	4780.1	4796.7	5222.8	5357.9	6074.9	6473.9	6199.6
35°	4956.7	5000.4	5083.5	5141.7	5131.3	5081.4	5534.5	5713.2	6405.3	6702.5	6401.2
37.5°	5202.0	5253.9	5391.1	5563.6	5468.0	5445.1	5867.0	6014.6	6507.1	6825.1	6548.7
40°	5596.9	5594.8	5831.7	5921.1	6006.3	5966.8	6212.0	6261.9	6561.2	6798.1	6552.9
42.5°	6060.3	6031.2	6272.3	6411.5	6521.7	6525.9	6571.6	6555.0	6586.1	6660.9	6509.2
45°	6500.9	6563.3	6806.4	7055.8	7166.0	7178.4	6875.0	6843.8	6629.8	6621.5	6426.1
47.5°	7039.2	7053.7	7253.3	7581.6	7837.3	7750.0	7267.8	7199.2	6821.0	6885.4	6565.3
50°	7070.4	7178.4	7357.2	7743.7	8529.3	8506.5	7777.0	7648.1	7128.6	7259.5	6954.0
52.5°	6417.8	6392.8	6604.8	7236.6	8477.4	9258.8	8620.8	8313.2	7789.5	7689.7	7583.7
55°	4890.2	4948.4	5135.5	5773.5	7361.3	9269.2	9770.1	9518.6	8496.1	8325.7	8203.0
56°	4289.6	4297.9	4474.6	5056.5	6717.1	8938.8	9988.3	9784.6	8847.3	8587.5	8400.5
57.5°	3556.0	3508.2	3599.6	3917.6	5669.6	8240.4	9749.3	9948.8	9258.8	8870.2	8610.4
60°	2799.5	2789.1	2751.7	2809.9	3583.0	6207.9	8115.8	8564.7	9217.2	8604.2	8246.7
62.5°	2286.1	2234.2	2309.0	2392.1	2489.8	3851.1	5702.8	5966.8	7317.7	6868.8	6195.4
65°	1772.8	1747.8	1841.4	2111.6	2169.7	2446.2	3248.4	3452.1	4320.8	4243.9	3736.8
67.5°	1220.0	1224.1	1305.2	1716.7	2011.8	1986.9	1988.9	2094.9	2255.0	1675.1	1459.0
70°	773.1	771.0	814.7	1105.7	1619.0	1635.6	1552.5	1521.3	1442.3	872.9	924.8
72.5°	496.7	482.2	505.0	611.0	837.6	968.5	997.6	1016.3	835.5	685.8	744.0
75°	280.6	266.0	257.7	284.7	330.4	382.4	419.8	432.3	484.2	519.6	550.7
77.5°	85.2	76.9	93.5	124.7	164.2	220.3	268.1	276.4	326.3	367.9	399.0
80°	37.4	41.6	58.2	83.1	116.4	155.9	189.1	201.6	234.8	266.0	274.3
82.5°	22.9	24.9	39.5	56.1	81.1	110.1	135.1	139.2	172.5	197.4	203.7
85°	8.3	10.4	20.8	33.3	52.0	70.7	70.7	76.9	70.7	70.7	76.9
87.5°	0.0	0.0	2.1	4.2	4.2	6.2	8.3	8.3	10.4	12.5	14.5
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°	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9	5359.9
2.5°	5374.5	5364.1	5347.5	5287.2	5281.0	5262.2	5158.3	5141.7	5158.3	5108.5	5112.6
5°	5364.1	5395.3	5270.6	5210.3	5098.1	5017.0	4923.5	4875.7	4790.5	4736.4	4796.7
7.5°	5409.8	5397.3	5241.5	5110.5	4942.2	4736.4	4572.3	4478.7	4329.1	4287.5	4318.7
10°	5393.2	5326.7	5143.8	4971.3	4653.3	4472.5	4206.5	3948.8	3807.4	3734.7	3724.3
12.5°	5370.3	5351.6	5046.1	4748.9	4414.3	4034.0	3659.9	3416.7	3186.0	3086.3	3100.8
15°	5397.3	5239.4	4863.2	4487.0	4042.3	3543.5	3140.3	2826.5	2666.5	2602.0	2602.0
17.5°	5384.9	5185.4	4775.9	4194.0	3630.8	3040.5	2597.9	2408.7	2342.2	2342.2	2360.9
20°	5391.1	5220.7	4599.3	3901.0	3144.5	2560.5	2238.3	2169.7	2198.8	2209.2	2219.6
22.5°	5426.4	5104.3	4426.8	3578.8	2693.5	2190.5	2032.6	2034.7	2086.6	2142.7	2132.3
25°	5470.1	5058.6	4216.9	3258.8	2348.5	2009.7	1959.8	1953.6	1993.1	2022.2	2026.3
27.5°	5432.7	4979.6	4002.8	2859.7	2065.8	1889.2	1878.8	1882.9	1895.4	1953.6	1934.9
30°	5555.3	5002.5	3734.7	2525.1	1910.0	1849.7	1837.2	1831.0	1849.7	1866.3	1851.8
32.5°	5707.0	4921.4	3535.2	2203.0	1833.1	1820.6	1795.6	1787.3	1797.7	1781.1	1789.4
35°	5773.5	4906.9	3275.4	1972.3	1772.8	1762.4	1747.8	1745.8	1747.8	1733.3	1720.8
37.5°	5810.9	4975.4	2978.2	1866.3	1735.4	1745.8	1712.5	1708.4	1671.0	1679.3	1685.5
40°	5875.3	4869.5	2737.1	1764.5	1712.5	1691.7	1662.6	1656.4	1631.5	1616.9	1631.5
42.5°	5781.8	4838.3	2500.2	1720.8	1679.3	1656.4	1635.6	1600.3	1592.0	1579.5	1571.2
45°	5707.0	4659.5	2288.2	1666.8	1639.8	1627.3	1587.8	1550.4	1519.2	1531.7	1513.0
47.5°	5763.1	4597.2	2078.3	1621.1	1585.7	1571.2	1531.7	1502.6	1471.4	1456.9	1452.7
50°	5987.6	4713.6	1901.6	1587.8	1540.0	1531.7	1479.7	1446.5	1417.4	1407.0	1411.2
52.5°	6523.8	5031.6	1781.1	1519.2	1496.4	1459.0	1429.9	1388.3	1369.6	1336.3	1357.1
55°	7203.4	5549.1	1749.9	1454.8	1442.3	1409.1	1369.6	1338.4	1303.1	1276.1	1269.8
56°	7421.6	5796.4	1725.0	1429.9	1409.1	1390.4	1338.4	1319.7	1263.6	1257.4	1253.2
57.5°	7598.3	6014.6	1729.1	1382.1	1361.3	1344.7	1313.5	1267.8	1230.4	1207.5	1217.9
60°	7199.2	5630.1	1650.2	1309.3	1305.2	1274.0	1230.4	1209.6	1163.8	1136.8	1130.6
62.5°	5351.6	3822.0	1338.4	1215.8	1213.7	1180.5	1130.6	1107.7	1099.4	1062.0	1062.0
65°	3082.1	2396.3	1157.6	1138.9	1122.3	1089.0	1039.1	1020.4	999.7	987.2	976.8
67.5°	1315.6	1242.8	1051.6	1049.5	1030.8	989.3	939.4	910.3	883.3	858.3	870.8
70°	953.9	968.5	949.8	939.4	916.5	864.6	820.9	785.6	744.0	727.4	739.9
72.5°	756.5	787.7	814.7	816.8	789.8	729.5	681.7	633.9	588.2	565.3	575.7
75°	573.6	594.4	621.4	627.6	588.2	546.6	500.9	451.0	415.7	388.6	392.8
77.5°	413.6	409.4	434.4	430.2	411.5	382.4	340.8	295.1	255.6	230.7	232.8
80°	282.6	288.9	303.4	301.4	278.5	259.8	228.6	191.2	162.1	141.3	137.2
82.5°	197.4	207.8	220.3	209.9	191.2	172.5	149.6	122.6	99.8	83.1	79.0
85°	70.7	81.1	93.5	99.8	106.0	101.8	85.2	68.6	49.9	41.6	39.5
87.5°	14.5	16.6	18.7	18.7	18.7	16.6	14.5	14.5	12.5	6.2	6.2
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)