

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: P648374

Luminaire Tested: **GALN-SA4B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14910.7 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

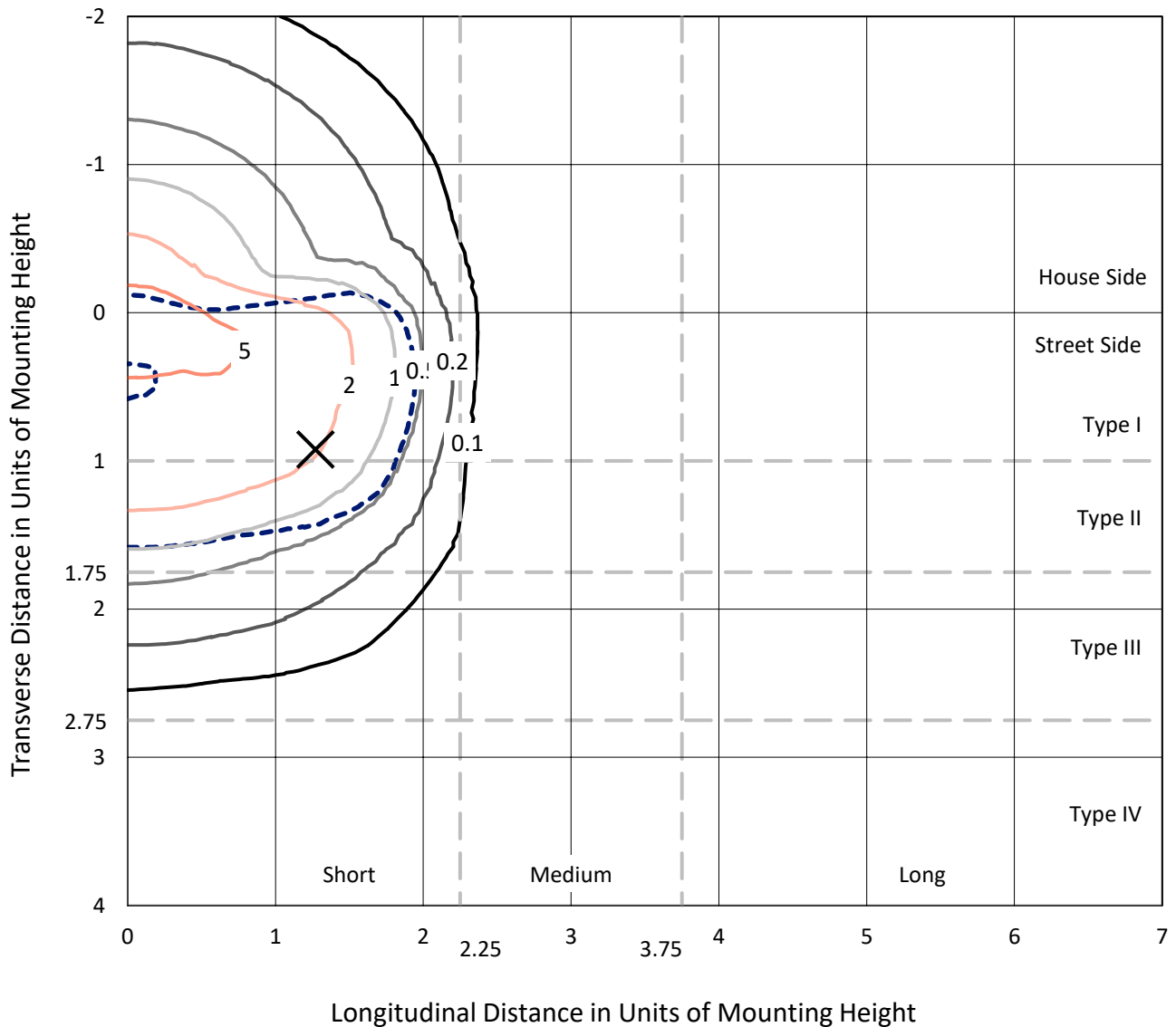
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

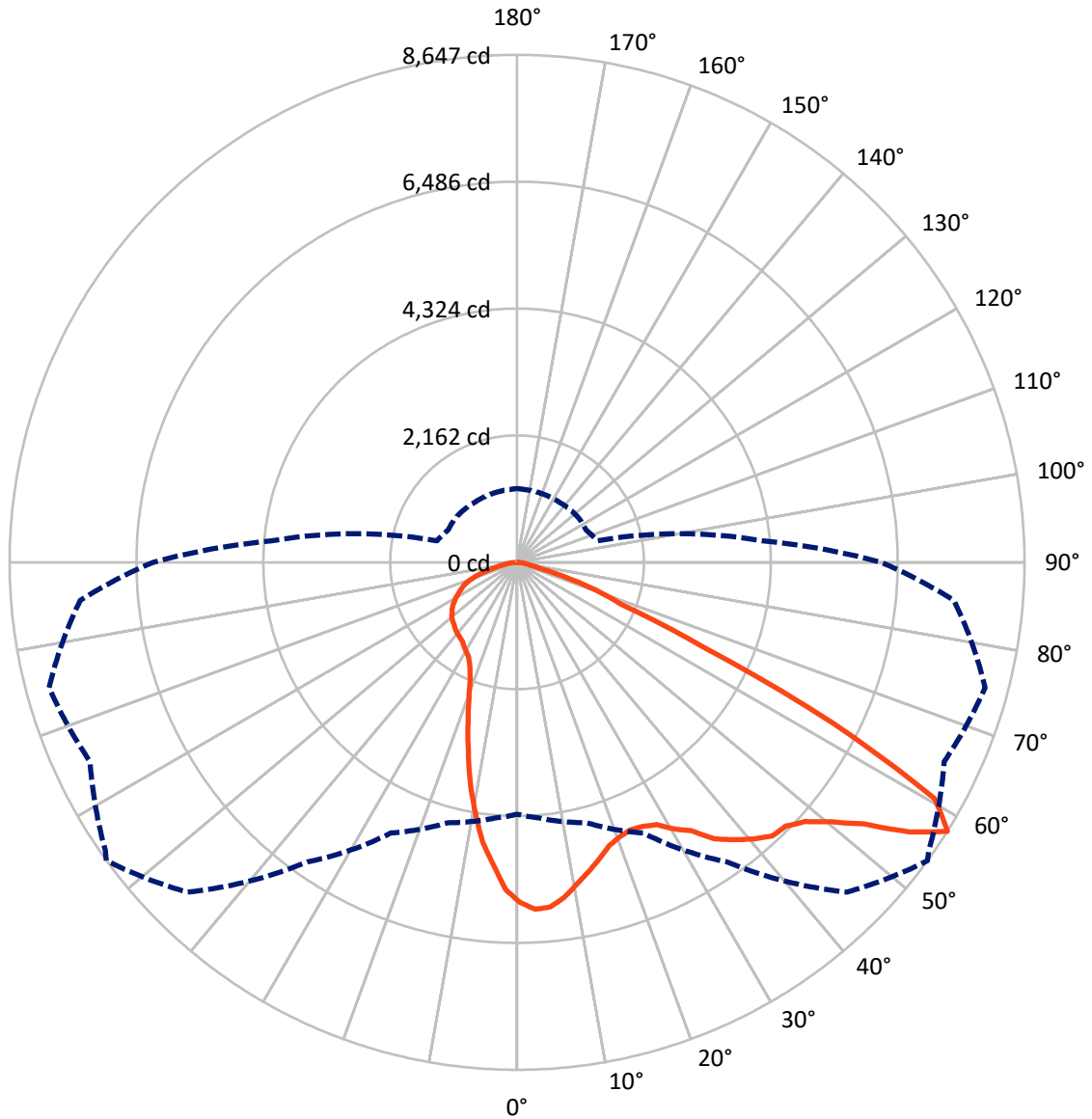
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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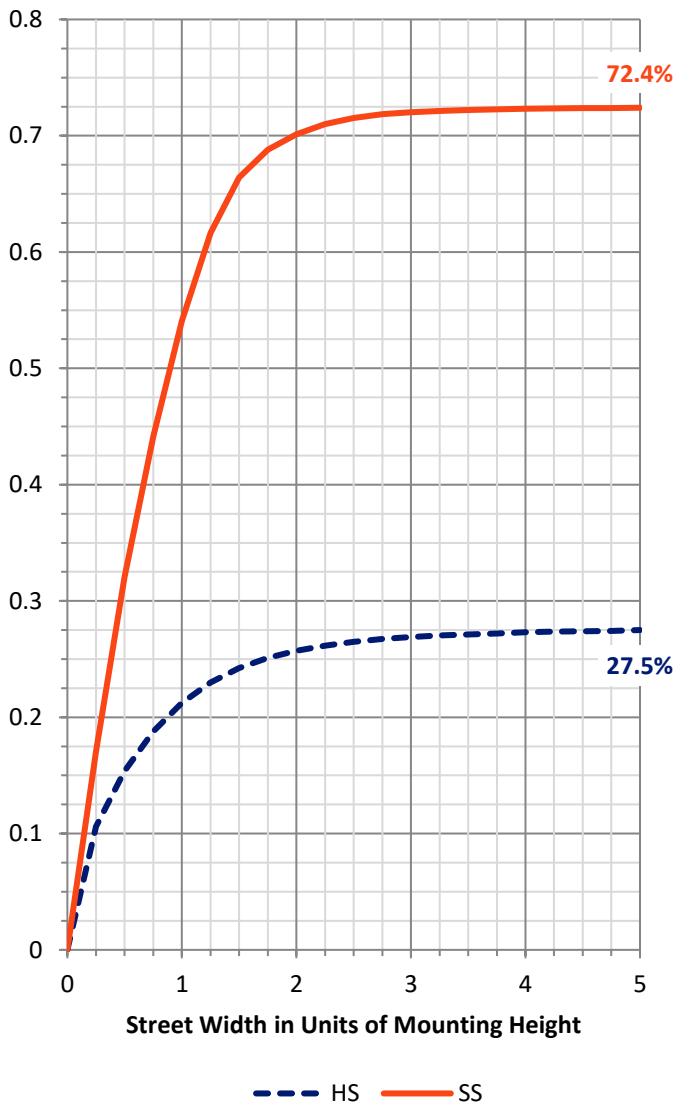
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4125.1	0.0	4125.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10785.5	0.0	10785.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	14910.7	0.0	14910.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.8	3.4
10°-20°	1157.3	7.8
20°-30°	1626.0	10.9
30°-40°	2273.1	15.2
40°-50°	3077.3	20.6
50°-60°	3748.3	25.1
60°-70°	1952.3	13.1
70°-80°	500.3	3.4
80°-90°	76.3	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°	14910.7	100.0
0°-180°	14910.7	100.0

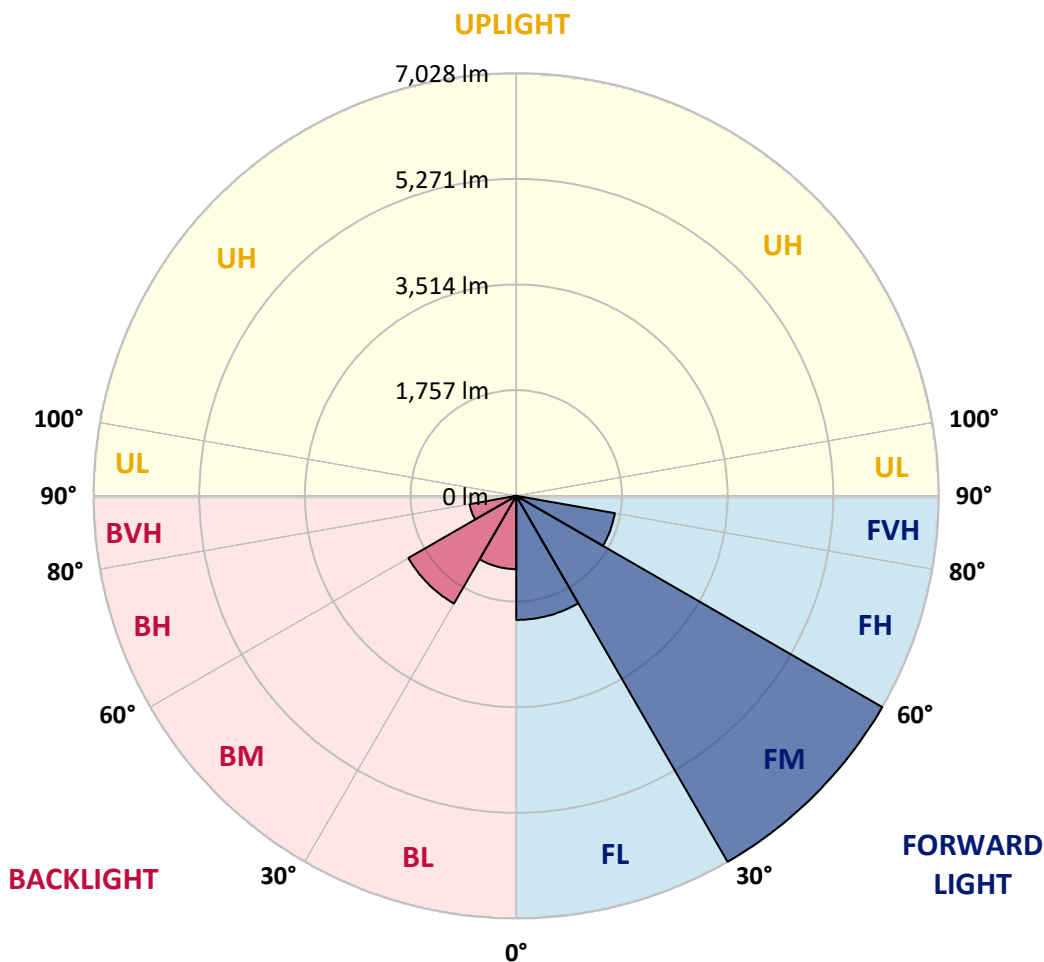


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2063.8	13.8			
FM (30°-60°)	7028.4	47.1			
FH (60°-80°)	1664.4	11.2			G1/1800
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	1219.2	8.2	B3/2500		
BM (30°-60°)	2070.4	13.9	B2/2500		
BH (60°-80°)	788.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.5	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°	54°	55°	65°	75°	85°
0°	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6
2.5°	5960.4	5937.4	5941.2	5971.9	5933.6	5918.2	5918.2	5843.5	5849.2	5797.5	5784.1
5°	5822.5	5768.8	5805.2	5851.2	5858.9	5874.2	5899.1	5879.9	5826.3	5770.7	5680.6
7.5°	5462.1	5510.0	5523.4	5556.0	5625.1	5688.3	5766.9	5713.2	5711.3	5655.7	5602.1
10°	5145.9	5117.1	5190.0	5237.9	5352.9	5458.3	5579.0	5573.3	5602.1	5538.8	5446.8
12.5°	4831.6	4808.6	4843.1	4952.3	5113.3	5266.6	5410.4	5356.7	5510.0	5498.5	5301.1
15°	4498.1	4515.3	4565.2	4666.8	4877.6	5061.5	5243.7	5245.6	5381.6	5427.6	5163.2
17.5°	4264.3	4245.1	4308.4	4459.8	4647.6	4868.0	5075.0	5117.1	5326.0	5352.9	5121.0
20°	4089.9	4116.7	4199.2	4275.8	4492.4	4758.8	4992.6	5007.9	5314.5	5387.4	5053.9
22.5°	4047.7	4032.4	4059.2	4183.8	4362.0	4651.4	4948.5	5006.0	5312.7	5375.9	4927.4
25°	4003.6	4053.5	4051.6	4176.1	4306.4	4565.2	4984.9	5048.2	5414.2	5435.3	4944.6
27.5°	4103.3	4097.5	4151.2	4160.8	4321.8	4588.2	5061.5	5109.5	5582.9	5565.6	4958.1
30°	4203.0	4174.3	4206.8	4319.9	4394.6	4720.4	5272.4	5268.6	5801.3	5789.9	5000.2
32.5°	4325.6	4312.2	4333.3	4433.0	4559.4	4896.7	5450.6	5563.7	6023.7	6096.5	5145.9
35°	4348.6	4404.2	4454.0	4588.2	4768.3	5182.3	5786.1	5879.9	6280.5	6508.5	5423.8
37.5°	4494.3	4515.3	4632.3	4869.9	5034.8	5563.7	5998.8	6058.1	6514.3	6773.0	5717.0
40°	4649.5	4674.4	4850.8	5099.9	5326.0	5812.8	6198.1	6217.3	6589.0	6976.2	5908.7
42.5°	4860.3	4883.3	5057.7	5370.1	5672.9	6025.6	6374.4	6395.5	6583.3	7210.0	6213.4
45°	5078.9	5134.4	5339.4	5694.1	5966.1	6274.7	6414.6	6500.9	6636.9	7418.9	6460.6
47.5°	5385.5	5437.2	5605.9	5952.8	6270.9	6493.3	6600.5	6684.9	6765.4	7601.0	6619.7
50°	5711.3	5720.8	5925.9	6240.3	6474.1	6740.5	6947.5	6976.2	6934.0	7811.8	6889.9
52.5°	5950.9	5981.5	6140.6	6447.2	6796.0	7123.7	7407.4	7438.1	7355.7	7890.4	6981.9
55°	5554.1	5536.9	5795.6	6203.9	7012.6	7694.9	8106.9	8130.0	7662.3	8133.8	7282.8
57.5°	4293.0	4375.5	4595.8	5088.4	6230.6	7947.8	8647.4	8565.0	8030.3	8256.4	7474.5
60°	3120.1	3101.0	3248.5	3578.2	4695.5	6849.7	8175.9	8260.3	7729.4	7441.9	6163.6
62.5°	2541.3	2514.5	2526.0	2537.5	3030.1	4546.0	6052.4	6050.5	5952.8	5349.1	4156.9
65°	2031.5	2094.8	2100.6	2186.8	2250.0	2715.8	3507.3	3695.1	3217.9	2639.1	1914.6
67.5°	1531.3	1508.3	1584.9	1891.6	2010.4	1960.6	1914.6	1935.7	1376.0	992.8	935.3
70°	902.7	893.1	985.1	1318.6	1655.9	1558.2	1443.1	1445.1	944.8	693.8	772.4
72.5°	494.5	492.6	511.7	668.8	941.0	977.4	866.3	893.1	563.4	561.6	603.7
75°	276.0	270.2	264.5	295.1	339.2	358.4	366.1	369.9	387.1	433.2	450.4
77.5°	101.6	97.7	97.7	113.1	143.8	180.2	228.1	231.9	274.0	314.3	331.5
80°	34.5	38.4	51.8	70.9	95.8	128.4	155.3	159.1	193.6	220.4	226.1
82.5°	21.1	23.0	34.5	49.8	69.0	90.0	115.0	116.9	143.8	161.0	168.7
85°	9.6	11.5	19.2	30.7	44.1	59.4	61.3	61.3	59.4	61.3	57.5
87.5°	0.0	0.0	3.8	3.8	3.8	5.7	7.7	5.7	9.6	11.5	11.5
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°	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6
2.5°	5743.9	5722.8	5657.6	5600.1	5582.9	5506.2	5393.1	5406.5	5324.2	5362.5	5322.2
5°	5665.3	5594.4	5427.6	5356.7	5170.9	5086.5	5029.0	4885.2	4818.2	4804.7	4747.3
7.5°	5464.0	5419.9	5211.1	5019.4	4822.0	4653.4	4436.8	4289.2	4183.8	4155.1	4070.7
10°	5305.0	5207.3	4917.9	4626.5	4344.8	4051.6	3769.8	3549.4	3442.1	3317.5	3275.4
12.5°	5147.8	5000.2	4609.3	4235.6	3871.4	3501.5	3160.3	2892.1	2658.2	2602.7	2583.5
15°	5050.0	4793.3	4333.3	3882.9	3365.4	2882.5	2541.3	2365.0	2221.3	2161.9	2204.0
17.5°	4921.7	4622.7	4068.8	3468.9	2899.7	2455.1	2169.5	2060.3	2008.6	2014.3	1997.0
20°	4760.6	4461.7	3721.9	3093.3	2483.8	2129.3	1966.3	1926.1	1933.8	1947.2	1941.4
22.5°	4645.7	4266.2	3470.9	2710.0	2146.5	1949.1	1882.0	1853.3	1878.2	1889.7	1880.1
25°	4557.5	4099.5	3166.1	2370.8	1951.0	1847.6	1816.9	1815.0	1853.3	1868.6	1859.1
27.5°	4477.0	3944.2	2863.3	2112.0	1820.7	1769.0	1759.4	1782.3	1807.3	1822.6	1836.1
30°	4429.1	3825.4	2579.7	1895.5	1755.6	1730.7	1713.4	1734.5	1747.9	1763.2	1755.6
32.5°	4475.1	3741.1	2305.6	1772.8	1701.9	1677.0	1700.0	1686.6	1709.5	1723.0	1701.9
35°	4618.8	3666.3	2110.1	1707.6	1640.5	1650.2	1654.0	1648.2	1657.8	1646.3	1671.2
37.5°	4760.6	3639.5	1929.9	1652.1	1611.8	1611.8	1608.0	1596.5	1615.6	1611.8	1623.3
40°	4940.8	3656.8	1776.6	1592.6	1584.9	1581.1	1565.8	1563.9	1556.2	1558.2	1562.0
42.5°	5098.0	3695.1	1688.5	1554.3	1560.0	1567.7	1539.0	1516.0	1525.6	1506.4	1506.4
45°	5264.7	3729.6	1609.9	1527.5	1521.8	1519.8	1496.8	1483.4	1475.7	1477.7	1494.9
47.5°	5527.3	3779.4	1550.5	1491.1	1494.9	1466.2	1460.4	1443.1	1450.8	1462.3	1464.2
50°	5713.2	3884.9	1504.5	1448.9	1462.3	1443.1	1408.6	1401.0	1401.0	1420.1	1416.3
52.5°	5843.5	4032.4	1460.4	1402.9	1408.6	1393.3	1381.8	1364.6	1353.1	1379.9	1393.3
55°	6242.2	4277.7	1448.9	1364.6	1362.7	1347.3	1326.2	1309.0	1303.2	1307.1	1333.9
57.5°	6203.9	4201.0	1412.5	1297.5	1293.7	1272.6	1251.5	1245.8	1243.8	1247.6	1255.3
60°	5036.6	3102.9	1261.1	1220.9	1215.1	1211.2	1190.2	1167.1	1155.7	1167.1	1157.6
62.5°	3332.8	2077.5	1111.6	1128.9	1132.7	1123.1	1088.6	1065.6	1069.4	1082.8	1061.7
65°	1636.7	1220.9	1008.1	1054.1	1057.9	1031.1	998.5	971.7	958.2	969.7	960.2
67.5°	935.3	933.3	923.8	971.7	969.7	943.0	891.2	868.2	845.2	849.0	843.3
70°	793.4	808.8	827.9	856.7	854.8	824.1	762.8	745.5	712.9	709.1	699.5
72.5°	624.8	651.6	693.8	714.9	697.7	659.3	619.0	590.3	561.6	544.3	550.1
75°	463.8	502.1	525.2	538.5	511.7	490.6	458.1	423.5	389.1	373.7	368.0
77.5°	337.3	348.8	369.9	379.4	362.2	341.2	322.0	287.5	254.9	233.8	228.1
80°	235.8	243.4	258.7	258.7	258.7	249.2	224.3	189.7	168.7	149.5	145.6
82.5°	164.8	172.5	187.8	180.2	178.2	166.7	151.4	124.6	101.6	88.2	84.3
85°	57.5	63.3	76.7	92.0	97.7	95.8	86.2	69.0	53.6	44.1	40.2
87.5°	13.4	13.4	15.3	13.4	13.4	15.3	13.4	13.4	13.4	9.6	7.7
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)