

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: P527760

Luminaire Tested: **GALN-SA2D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14038 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

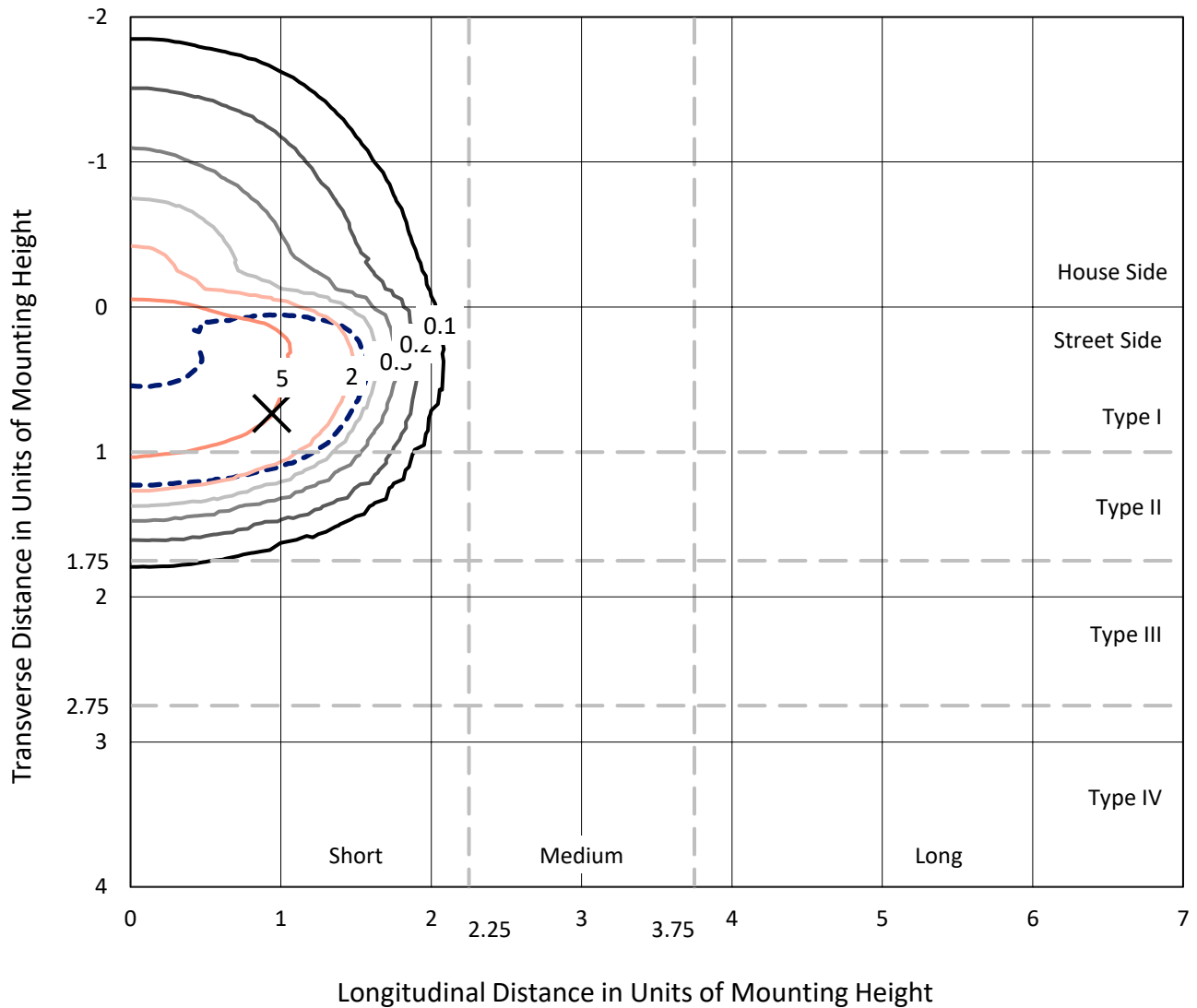
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

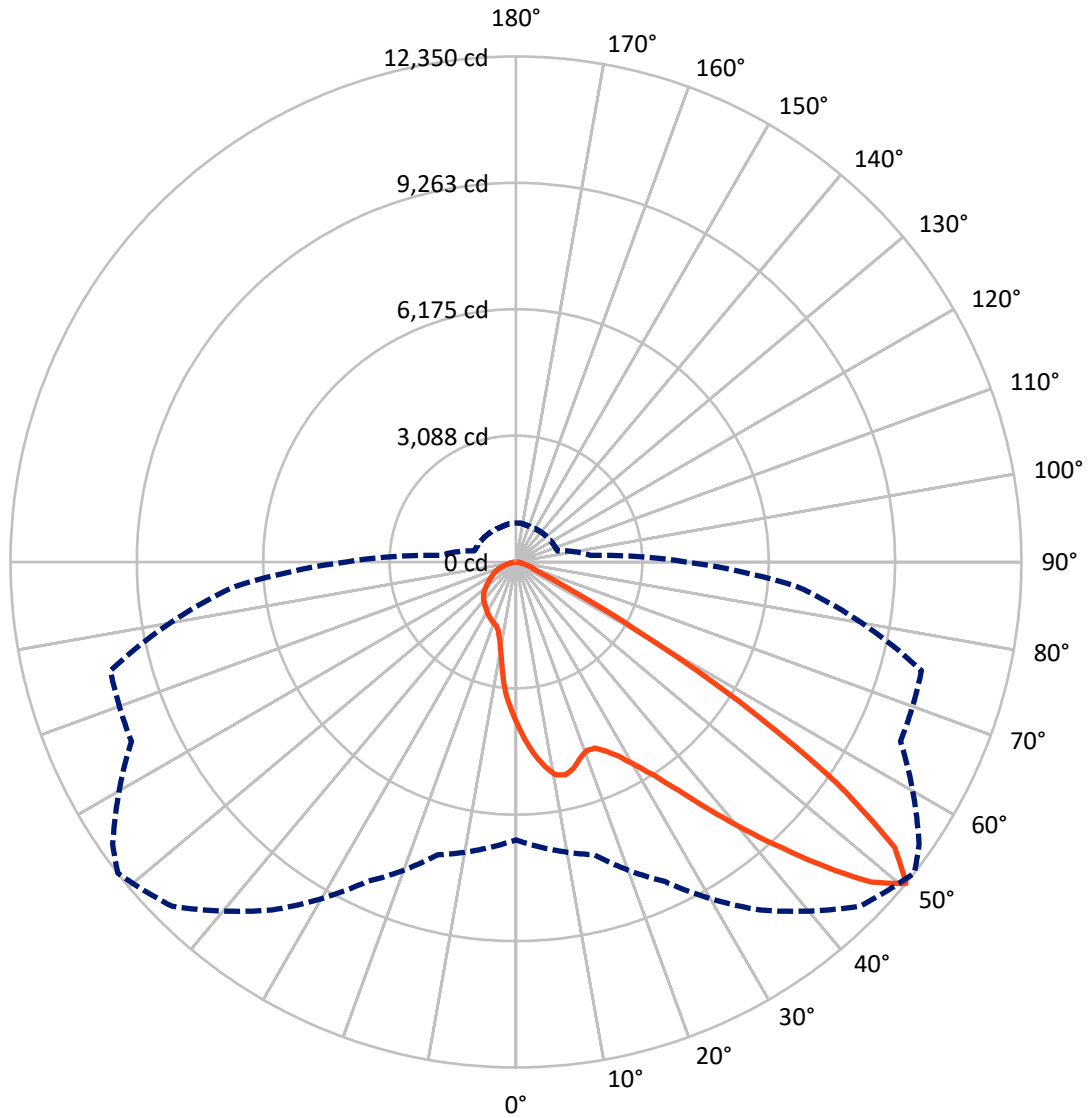
✕ Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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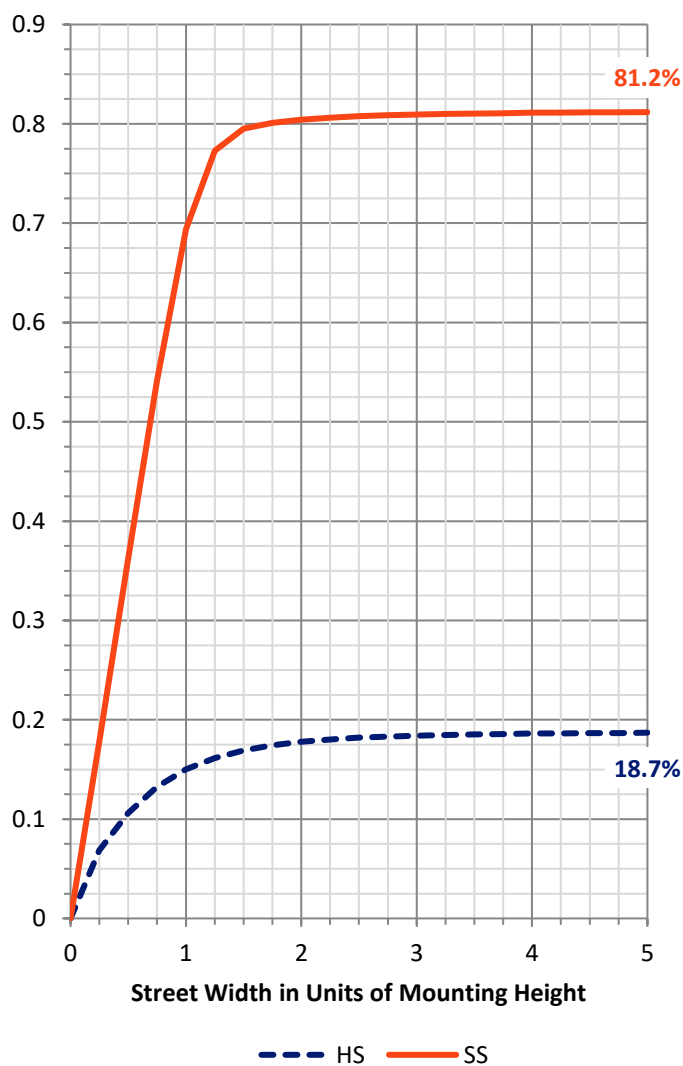
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2638.8	0.0	2638.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11399.2	0.0	11399.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	14038.0	0.0	14038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.7	2.6
10°-20°	977.5	7.0
20°-30°	1646.6	11.7
30°-40°	2763.2	19.7
40°-50°	4227.0	30.1
50°-60°	3081.8	22.0
60°-70°	685.9	4.9
70°-80°	247.4	1.8
80°-90°	43.8	0.3
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°	14038.0	100.0
0°-180°	14038.0	100.0

Coefficient of Utilization



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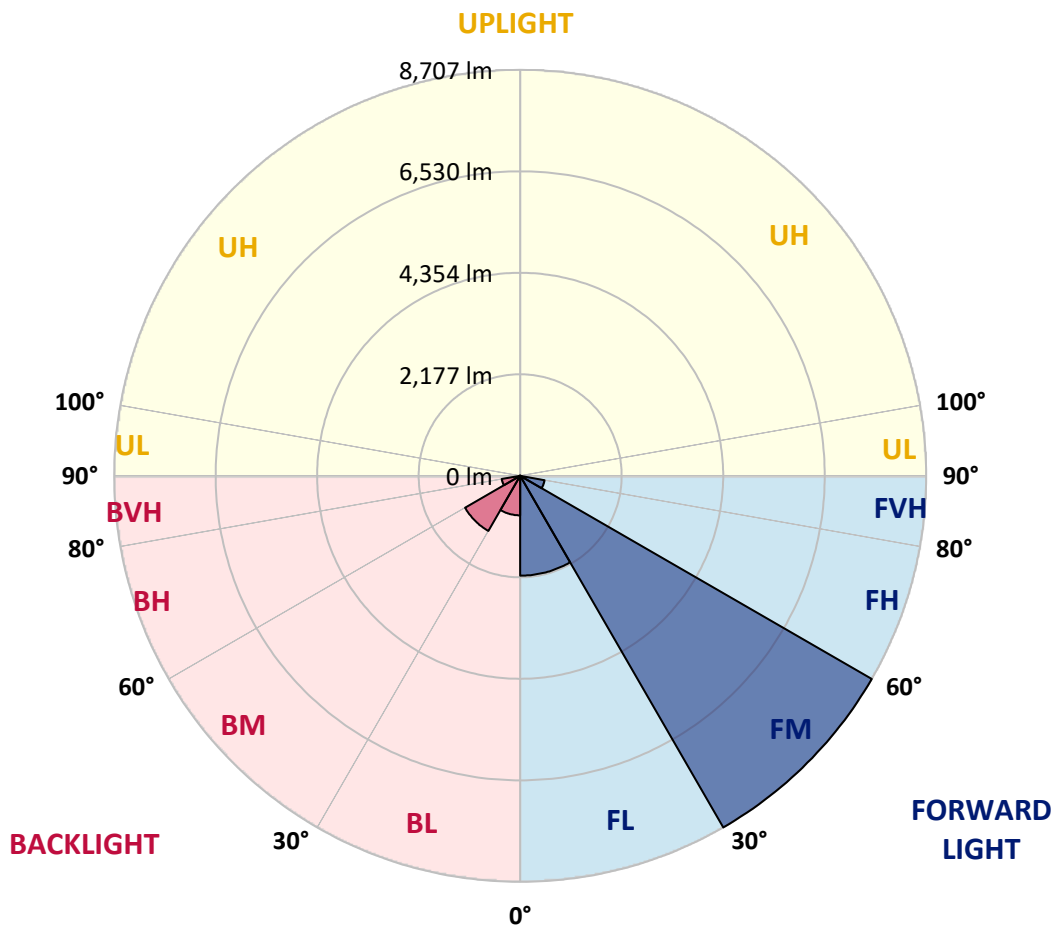
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.3	15.3			
FM (30°-60°)	8707.1	62.0			
FH (60°-80°)	531.2	3.8			G0/660
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	847.6	6.0	B2/1000		
BM (30°-60°)	1365.0	9.7	B2/2500		
BH (60°-80°)	402.0	2.9	B1/500		G1/500
BVH (80°-90°)	24.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1
2.5°	4659.2	4569.5	4579.7	4515.4	4446.0	4425.7	4354.6	4287.0	4236.2	4127.9	4028.1
5°	5092.3	5065.2	5024.6	4973.8	4921.4	4792.8	4720.1	4635.5	4449.4	4281.9	4116.1
7.5°	5154.9	5149.8	5171.8	5171.8	5190.4	5141.3	5038.1	4978.9	4781.0	4508.6	4200.7
10°	4715.0	4730.2	4836.8	4975.5	5168.4	5302.0	5285.1	5269.9	5053.4	4681.2	4300.5
12.5°	4364.8	4331.0	4393.6	4512.0	4801.3	5124.4	5342.6	5344.3	5288.5	4956.9	4373.3
15°	4166.9	4190.5	4207.5	4263.3	4481.5	4855.4	5239.5	5352.8	5598.1	5151.5	4488.3
17.5°	4293.7	4214.2	4210.8	4224.4	4336.0	4616.9	5048.3	5242.8	5767.3	5401.9	4630.4
20°	4459.5	4457.8	4410.5	4393.6	4391.9	4642.3	4923.1	5187.0	5857.0	5726.7	4774.2
22.5°	4750.5	4750.5	4672.7	4635.5	4556.0	4760.7	4940.0	5119.3	6005.8	5950.0	4843.6
25°	5237.8	5158.2	5024.6	4933.2	4887.6	4960.3	5119.3	5280.1	6136.1	6186.8	4987.4
27.5°	5687.8	5562.6	5496.6	5339.3	5278.4	5236.1	5381.6	5544.0	6288.4	6555.7	5065.2
30°	6198.7	6176.7	6058.3	5855.3	5704.7	5626.9	5760.5	5921.2	6567.5	6932.9	5244.5
32.5°	7112.3	6912.6	6751.9	6503.2	6257.9	6092.1	6224.1	6330.7	7031.0	7327.1	5440.8
35°	8098.6	8034.3	7756.8	7308.5	6932.9	6784.0	6861.9	6941.4	7570.7	7929.4	5770.7
37.5°	9068.0	8980.0	8751.6	8374.3	7917.5	7614.7	7670.5	7763.6	8176.4	8741.4	6173.3
40°	9765.0	9656.7	9541.7	9485.8	9032.4	8617.9	8585.8	8609.5	8995.2	9502.7	6619.9
42.5°	9815.7	9949.4	9984.9	10209.9	10103.3	9763.3	9565.3	9570.4	9776.8	10255.6	7071.7
45°	9709.1	9585.6	9847.9	10462.0	10813.9	10972.9	10639.6	10597.3	10260.7	10692.1	7296.7
47.5°	8590.9	8624.7	9068.0	10039.0	11055.8	11766.3	11688.5	11548.1	10519.5	10676.8	7261.1
50°	6790.8	6995.5	7406.6	8616.2	10379.1	11891.5	12350.0	12025.2	10365.6	10257.3	6899.1
52.5°	4522.1	4606.7	4877.4	6438.9	8345.6	10629.5	11588.7	11663.1	10223.4	9707.4	6440.6
55°	2013.2	2006.5	2387.1	3363.3	5236.1	8088.4	9468.9	9922.3	9677.0	9147.5	5994.0
57.5°	852.7	881.4	1037.1	1453.2	2574.9	4880.8	6415.2	6812.8	7442.2	7511.5	4598.3
60°	576.9	580.3	622.6	727.5	1077.7	2292.4	3365.0	3842.0	4292.1	4261.6	2439.6
62.5°	453.4	465.2	497.4	539.7	639.5	1040.4	1505.7	1771.3	1800.1	1514.1	925.4
65°	387.4	389.1	421.3	456.8	500.8	605.7	725.8	739.3	747.8	720.7	680.1
67.5°	319.7	323.1	348.5	389.1	429.7	463.5	497.4	514.3	553.2	629.3	619.2
70°	253.8	258.8	280.8	314.7	351.9	372.2	414.5	429.7	465.2	524.5	548.1
72.5°	192.9	194.6	213.2	236.8	270.7	291.0	326.5	343.4	367.1	417.9	439.9
75°	138.7	143.8	157.3	169.2	174.3	187.8	221.6	240.2	274.1	296.1	297.8
77.5°	72.7	76.1	79.5	79.5	96.4	121.8	143.8	154.0	177.6	194.6	186.1
80°	28.8	30.5	38.9	52.4	67.7	88.0	103.2	108.3	128.6	138.7	143.8
82.5°	16.9	18.6	25.4	37.2	49.1	62.6	74.4	79.5	93.0	104.9	108.3
85°	8.5	10.2	15.2	23.7	32.1	38.9	37.2	35.5	35.5	33.8	35.5
87.5°	3.4	3.4	5.1	5.1	5.1	6.8	8.5	8.5	8.5	10.2	10.2
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°	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1	3957.1
2.5°	3962.2	3894.5	3831.9	3716.8	3591.7	3556.1	3410.6	3358.2	3321.0	3277.0	3263.4
5°	3982.5	3892.8	3691.5	3459.7	3275.3	3038.4	2882.8	2715.3	2593.5	2563.1	2554.6
7.5°	4024.8	3870.8	3524.0	3173.8	2796.5	2475.1	2229.8	2097.8	1981.1	1974.3	1962.5
10°	4072.1	3804.8	3341.3	2791.4	2309.3	2011.5	1864.3	1806.8	1778.1	1771.3	1767.9
12.5°	4111.0	3791.3	3136.6	2419.2	1964.2	1784.8	1740.8	1735.8	1747.6	1751.0	1757.8
15°	4127.9	3737.1	2889.6	2086.0	1749.3	1683.3	1701.9	1722.2	1730.7	1752.7	1735.8
17.5°	4160.1	3667.8	2585.0	1822.0	1629.2	1641.0	1673.2	1696.9	1710.4	1725.6	1703.6
20°	4177.0	3605.2	2299.1	1664.7	1586.9	1608.9	1652.9	1671.5	1688.4	1695.2	1669.8
22.5°	4161.8	3476.6	2047.1	1537.8	1546.3	1575.0	1614.0	1634.3	1624.1	1597.0	1581.8
25°	4121.2	3295.6	1784.8	1456.6	1488.8	1539.5	1570.0	1554.7	1536.1	1520.9	1515.8
27.5°	4119.5	3074.0	1595.4	1382.2	1439.7	1509.1	1498.9	1485.4	1493.8	1482.0	1468.5
30°	4127.9	2859.1	1439.7	1339.9	1404.2	1438.0	1449.9	1436.3	1446.5	1424.5	1431.2
32.5°	4084.0	2649.3	1338.2	1290.8	1361.9	1360.2	1399.1	1409.3	1385.6	1339.9	1346.7
35°	4102.6	2480.2	1251.9	1268.8	1314.5	1314.5	1345.0	1333.1	1270.5	1243.5	1250.2
37.5°	4231.1	2314.4	1209.6	1238.4	1268.8	1282.4	1272.2	1221.5	1206.2	1206.2	1209.6
40°	4353.0	2172.2	1184.2	1231.6	1226.5	1235.0	1160.6	1165.6	1165.6	1167.3	1158.9
42.5°	4461.2	2075.8	1163.9	1191.0	1199.5	1155.5	1109.8	1104.7	1116.6	1114.9	1108.1
45°	4500.1	1996.3	1135.2	1145.3	1152.1	1079.4	1057.4	1047.2	1060.7	1065.8	1072.6
47.5°	4351.3	1930.3	1103.0	1082.7	1069.2	1021.8	993.1	974.5	991.4	1020.1	1026.9
50°	4160.1	1844.0	1052.3	1013.4	984.6	964.3	944.0	925.4	937.2	957.5	952.5
52.5°	3877.6	1708.7	988.0	947.4	898.3	903.4	884.8	874.7	881.4	881.4	876.3
55°	3474.9	1404.2	879.7	851.0	810.4	823.9	827.3	813.7	800.2	812.1	801.9
57.5°	2371.9	991.4	785.0	785.0	744.4	763.0	761.3	729.2	697.0	700.4	693.6
60°	1372.0	790.1	724.1	717.3	675.0	690.2	693.6	671.6	622.6	626.0	619.2
62.5°	779.9	675.0	632.7	622.6	614.1	627.7	627.7	598.9	556.6	560.0	553.2
65°	663.2	626.0	565.1	563.4	560.0	563.4	549.8	519.4	482.2	466.9	468.6
67.5°	602.3	578.6	519.4	504.2	494.0	492.3	466.9	438.2	421.3	407.7	406.0
70°	527.8	509.2	465.2	444.9	434.8	411.1	385.7	367.1	343.4	336.7	343.4
72.5°	417.9	416.2	399.3	377.3	355.3	336.7	314.7	289.3	267.3	262.2	250.4
75°	289.3	292.7	296.1	292.7	274.1	250.4	225.0	204.7	177.6	162.4	159.0
77.5°	189.5	194.6	199.6	192.9	181.0	159.0	142.1	116.7	96.4	84.6	82.9
80°	138.7	145.5	148.9	143.8	130.3	113.3	94.7	74.4	59.2	49.1	49.1
82.5°	106.6	113.3	116.7	108.3	94.7	81.2	67.7	52.4	40.6	32.1	30.5
85°	37.2	35.5	42.3	44.0	52.4	49.1	40.6	30.5	23.7	16.9	15.2
87.5°	10.2	10.2	11.8	11.8	10.2	8.5	8.5	8.5	6.8	5.1	5.1
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)