

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: P529792

Luminaire Tested: **GALN-SA5A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529792
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-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 16234 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

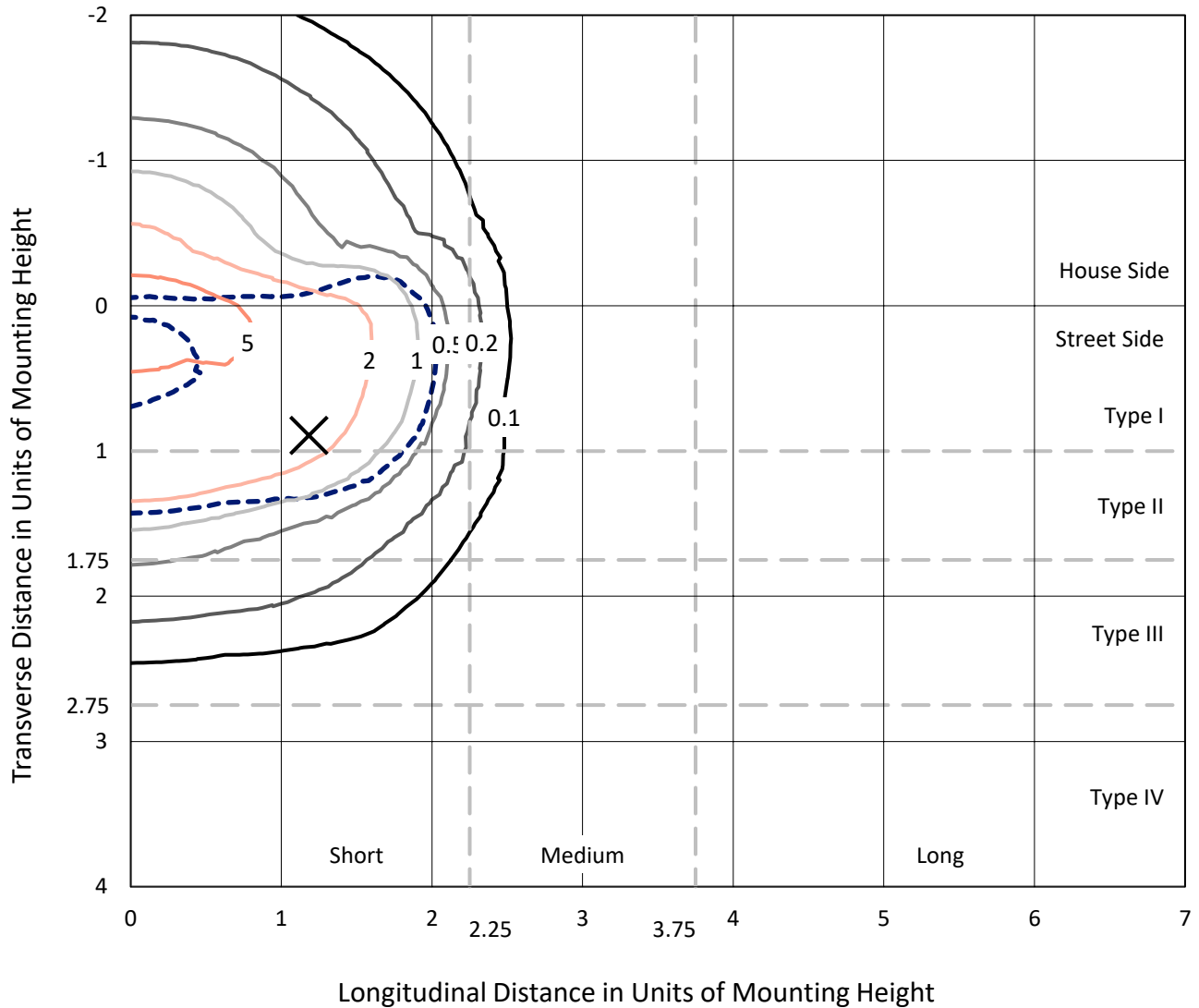
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

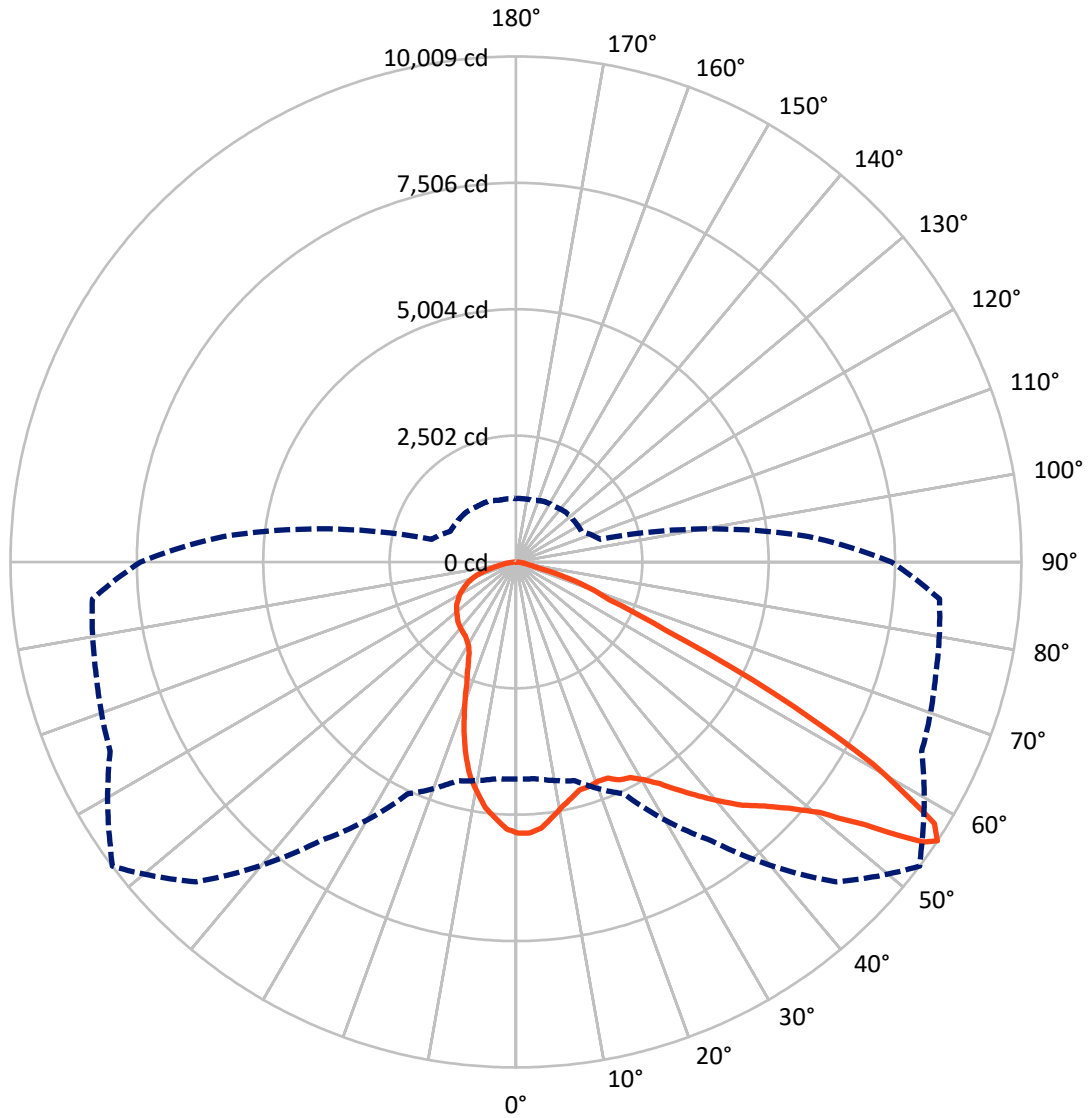
✕ Max cd
 - - - 1/2 Max cd



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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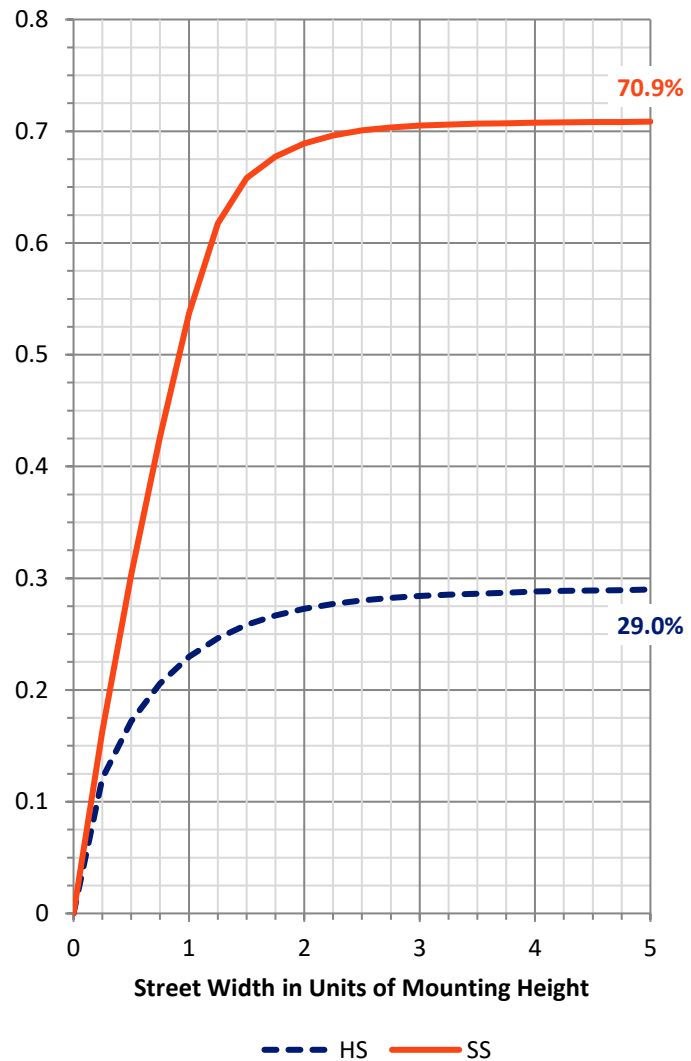
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4737.4	0.0	4737.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11496.6	0.0	11496.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	16234.0	0.0	16234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	2.9
10°-20°	1187.5	7.3
20°-30°	1751.1	10.8
30°-40°	2502.0	15.4
40°-50°	3443.7	21.2
50°-60°	4069.5	25.1
60°-70°	2168.8	13.4
70°-80°	550.2	3.4
80°-90°	85.8	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°	16234.0	100.0
0°-180°	16234.0	100.0



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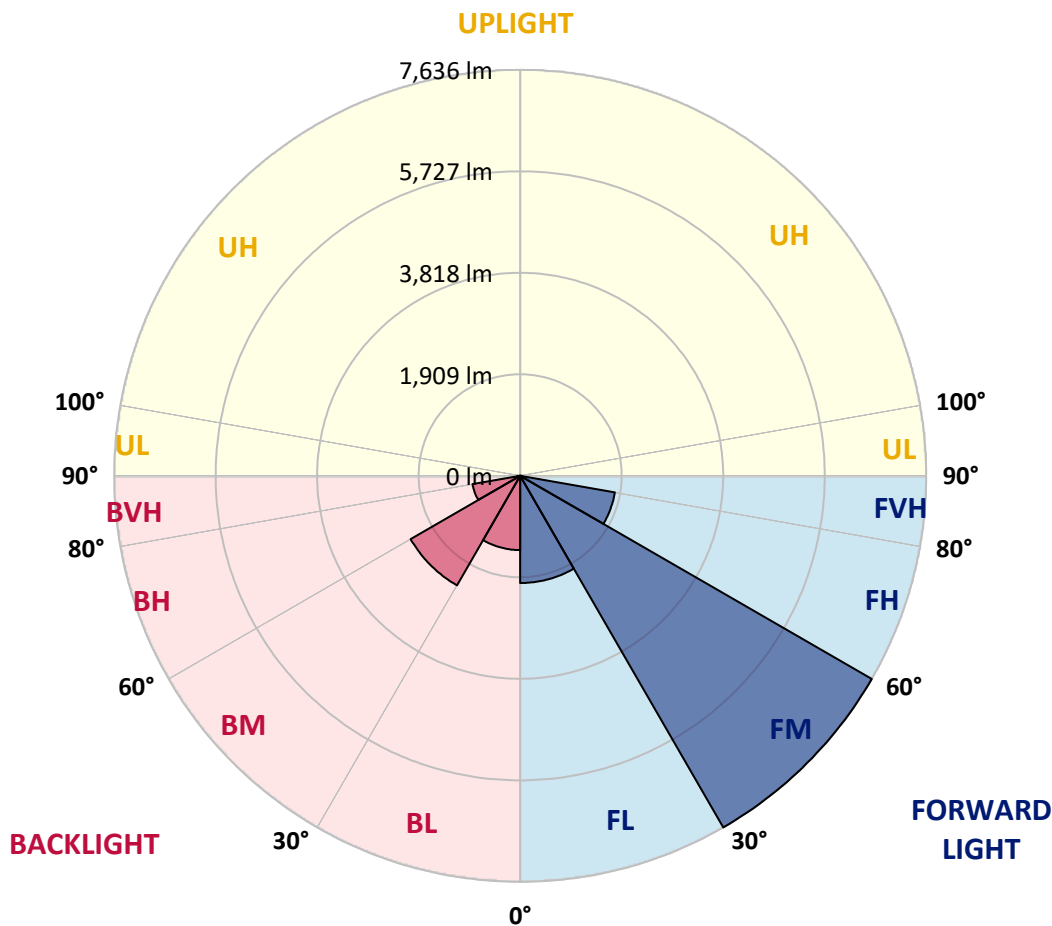
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.8	12.4			
FM (30°-60°)	7636.2	47.0			
FH (60°-80°)	1809.1	11.1			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	1397.3	8.6	B3/2500		
BM (30°-60°)	2379.0	14.7	B2/2500		
BH (60°-80°)	909.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.3	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°	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8
2.5°	5304.2	5258.4	5285.5	5275.1	5360.4	5385.4	5372.9	5383.3	5431.2	5408.3	5360.4
5°	4956.4	5021.0	5033.5	5064.7	5114.7	5212.6	5289.6	5310.5	5333.4	5439.6	5429.2
7.5°	4639.9	4683.6	4660.7	4752.3	4860.6	5018.9	5112.6	5129.3	5339.6	5397.9	5441.7
10°	4440.0	4396.2	4500.3	4525.3	4648.2	4829.4	4941.8	5010.6	5202.2	5433.3	5460.4
12.5°	4254.6	4240.0	4302.5	4373.3	4510.8	4698.2	4812.7	4839.8	5135.5	5379.2	5506.2
15°	4117.2	4100.5	4163.0	4215.0	4375.4	4542.0	4687.8	4764.8	5062.6	5347.9	5466.6
17.5°	4008.9	4006.8	4042.2	4135.9	4300.4	4440.0	4675.3	4679.4	5025.1	5395.8	5500.0
20°	4002.6	4000.5	4006.8	4110.9	4260.9	4431.6	4635.7	4673.2	5025.1	5362.5	5502.0
22.5°	4054.7	4021.4	4058.9	4125.5	4233.8	4446.2	4650.3	4733.6	5145.9	5527.0	5595.8
25°	4138.0	4146.3	4167.1	4190.1	4252.5	4479.5	4779.4	4848.1	5287.5	5668.6	5724.9
27.5°	4290.0	4285.8	4294.2	4306.7	4360.8	4510.8	4831.5	5008.5	5583.3	5920.6	5864.4
30°	4512.8	4498.3	4531.6	4575.3	4525.3	4610.7	5004.3	5137.6	5858.2	6174.7	6020.6
32.5°	4714.8	4769.0	4831.5	4850.2	4789.8	4806.5	5233.4	5368.8	6087.2	6487.1	6212.2
35°	4966.8	5010.6	5093.9	5152.2	5141.8	5091.8	5545.8	5724.9	6418.4	6716.2	6414.2
37.5°	5212.6	5264.6	5402.1	5574.9	5479.1	5456.2	5879.0	6026.8	6520.4	6839.0	6562.1
40°	5608.3	5606.2	5843.6	5933.1	6018.5	5978.9	6224.7	6274.7	6574.5	6812.0	6566.2
42.5°	6072.7	6043.5	6285.1	6424.6	6535.0	6539.1	6585.0	6568.3	6599.5	6674.5	6522.5
45°	6514.2	6576.6	6820.3	7070.2	7180.6	7193.1	6889.0	6857.8	6643.3	6634.9	6439.2
47.5°	7053.5	7068.1	7268.0	7597.1	7853.2	7765.8	7282.6	7213.9	6834.9	6899.4	6578.7
50°	7084.8	7193.1	7372.2	7759.5	8546.7	8523.8	7792.8	7663.7	7143.1	7274.3	6968.1
52.5°	6430.9	6405.9	6618.3	7251.4	8494.6	9277.7	8638.3	8330.1	7805.3	7705.4	7599.2
55°	4900.2	4958.5	5145.9	5785.3	7376.3	9288.1	9790.0	9538.0	8513.4	8342.6	8219.7
56°	4298.3	4306.7	4483.7	5066.8	6730.7	8957.0	10008.6	9804.6	8865.3	8605.0	8417.6
57.5°	3563.2	3515.3	3606.9	3925.6	5681.1	8257.2	9769.2	9969.1	9277.7	8888.2	8627.9
60°	2805.2	2794.8	2757.3	2815.6	3590.3	6220.5	8132.3	8582.1	9236.0	8621.7	8263.5
62.5°	2290.8	2238.7	2313.7	2397.0	2494.9	3858.9	5714.5	5978.9	7332.6	6882.8	6208.0
65°	1776.4	1751.4	1845.1	2115.9	2174.2	2451.1	3255.0	3459.1	4329.6	4252.5	3744.4
67.5°	1222.4	1226.6	1307.8	1720.2	2015.9	1990.9	1993.0	2099.2	2259.5	1678.5	1461.9
70°	774.7	772.6	816.4	1107.9	1622.3	1639.0	1555.7	1524.4	1445.3	874.7	926.7
72.5°	497.7	483.1	506.1	612.3	839.3	970.5	999.6	1018.4	837.2	687.2	745.5
75°	281.1	266.6	258.2	285.3	331.1	383.2	420.7	433.2	485.2	520.6	551.9
77.5°	85.4	77.1	93.7	125.0	164.5	220.7	268.6	277.0	327.0	368.6	399.8
80°	37.5	41.7	58.3	83.3	116.6	156.2	189.5	202.0	235.3	266.6	274.9
82.5°	22.9	25.0	39.6	56.2	81.2	110.4	135.4	139.5	172.9	197.8	204.1
85°	8.3	10.4	20.8	33.3	52.1	70.8	70.8	77.1	70.8	70.8	77.1
87.5°	0.0	0.0	2.1	4.2	4.2	6.2	8.3	8.3	10.4	12.5	14.6
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°	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8	5370.8
2.5°	5385.4	5375.0	5358.4	5298.0	5291.7	5273.0	5168.8	5152.2	5168.8	5118.9	5123.0
5°	5375.0	5406.3	5281.3	5220.9	5108.4	5027.2	4933.5	4885.6	4800.2	4746.1	4806.5
7.5°	5420.8	5408.3	5252.1	5120.9	4952.3	4746.1	4581.6	4487.9	4337.9	4296.3	4327.5
10°	5404.2	5337.5	5154.3	4981.4	4662.8	4481.6	4215.0	3956.8	3815.2	3742.3	3731.9
12.5°	5381.3	5362.5	5056.4	4758.6	4423.3	4042.2	3667.3	3423.7	3192.5	3092.6	3107.1
15°	5408.3	5250.1	4873.1	4496.2	4050.5	3550.7	3146.7	2832.2	2671.9	2607.3	2607.3
17.5°	5395.8	5195.9	4785.7	4202.5	3638.2	3046.7	2603.2	2413.7	2347.0	2347.0	2365.8
20°	5402.1	5231.3	4608.6	3908.9	3150.9	2565.7	2242.9	2174.2	2203.3	2213.7	2224.1
22.5°	5437.5	5114.7	4435.8	3586.1	2699.0	2195.0	2036.7	2038.8	2090.9	2147.1	2136.7
25°	5481.2	5068.9	4225.5	3265.4	2353.3	2013.8	1963.8	1957.6	1997.1	2026.3	2030.5
27.5°	5443.7	4989.7	4011.0	2865.6	2070.0	1893.0	1882.6	1886.8	1899.3	1957.6	1938.8
30°	5566.6	5012.7	3742.3	2530.3	1913.8	1853.5	1841.0	1834.7	1853.5	1870.1	1855.5
32.5°	5718.6	4931.4	3542.4	2207.5	1836.8	1824.3	1799.3	1791.0	1801.4	1784.7	1793.1
35°	5785.3	4916.9	3282.1	1976.3	1776.4	1766.0	1751.4	1749.3	1751.4	1736.8	1724.3
37.5°	5822.8	4985.6	2984.3	1870.1	1738.9	1749.3	1716.0	1711.8	1674.4	1682.7	1688.9
40°	5887.3	4879.4	2742.7	1768.1	1716.0	1695.2	1666.0	1659.8	1634.8	1620.2	1634.8
42.5°	5793.6	4848.1	2505.3	1724.3	1682.7	1659.8	1639.0	1603.5	1595.2	1582.7	1574.4
45°	5718.6	4669.0	2292.9	1670.2	1643.1	1630.6	1591.1	1553.6	1522.3	1534.8	1516.1
47.5°	5774.9	4606.6	2082.5	1624.4	1589.0	1574.4	1534.8	1505.7	1474.4	1459.9	1455.7
50°	5999.8	4723.2	1905.5	1591.1	1543.2	1534.8	1482.8	1449.4	1420.3	1409.9	1414.0
52.5°	6537.1	5041.8	1784.7	1522.3	1499.4	1461.9	1432.8	1391.1	1372.4	1339.1	1359.9
55°	7218.1	5560.4	1753.5	1457.8	1445.3	1412.0	1372.4	1341.1	1305.7	1278.7	1272.4
56°	7436.7	5808.2	1728.5	1432.8	1412.0	1393.2	1341.1	1322.4	1266.2	1259.9	1255.8
57.5°	7613.7	6026.8	1732.7	1384.9	1364.1	1347.4	1316.2	1270.3	1232.9	1210.0	1220.4
60°	7213.9	5641.6	1653.5	1312.0	1307.8	1276.6	1232.9	1212.0	1166.2	1139.1	1132.9
62.5°	5362.5	3829.8	1341.1	1218.3	1216.2	1182.9	1132.9	1110.0	1101.7	1064.2	1064.2
65°	3088.4	2401.2	1160.0	1141.2	1124.6	1091.2	1041.3	1022.5	1001.7	989.2	978.8
67.5°	1318.2	1245.4	1053.8	1051.7	1032.9	991.3	941.3	912.1	885.1	860.1	872.6
70°	955.9	970.5	951.7	941.3	918.4	866.3	822.6	787.2	745.5	728.9	741.4
72.5°	758.0	789.3	816.4	818.4	791.4	731.0	683.1	635.2	589.4	566.4	576.9
75°	574.8	595.6	622.7	628.9	589.4	547.7	501.9	451.9	416.5	389.4	393.6
77.5°	414.4	410.3	435.2	431.1	412.3	383.2	341.5	295.7	256.2	231.2	233.2
80°	283.2	289.5	304.0	302.0	279.1	260.3	229.1	191.6	162.4	141.6	137.4
82.5°	197.8	208.3	220.7	210.3	191.6	172.9	149.9	122.9	100.0	83.3	79.1
85°	70.8	81.2	93.7	100.0	106.2	102.0	85.4	68.7	50.0	41.7	39.6
87.5°	14.6	16.7	18.7	18.7	18.7	16.7	14.6	14.6	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)