

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: P528388

Luminaire Tested: **GALN-SA3C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528388
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-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14877 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

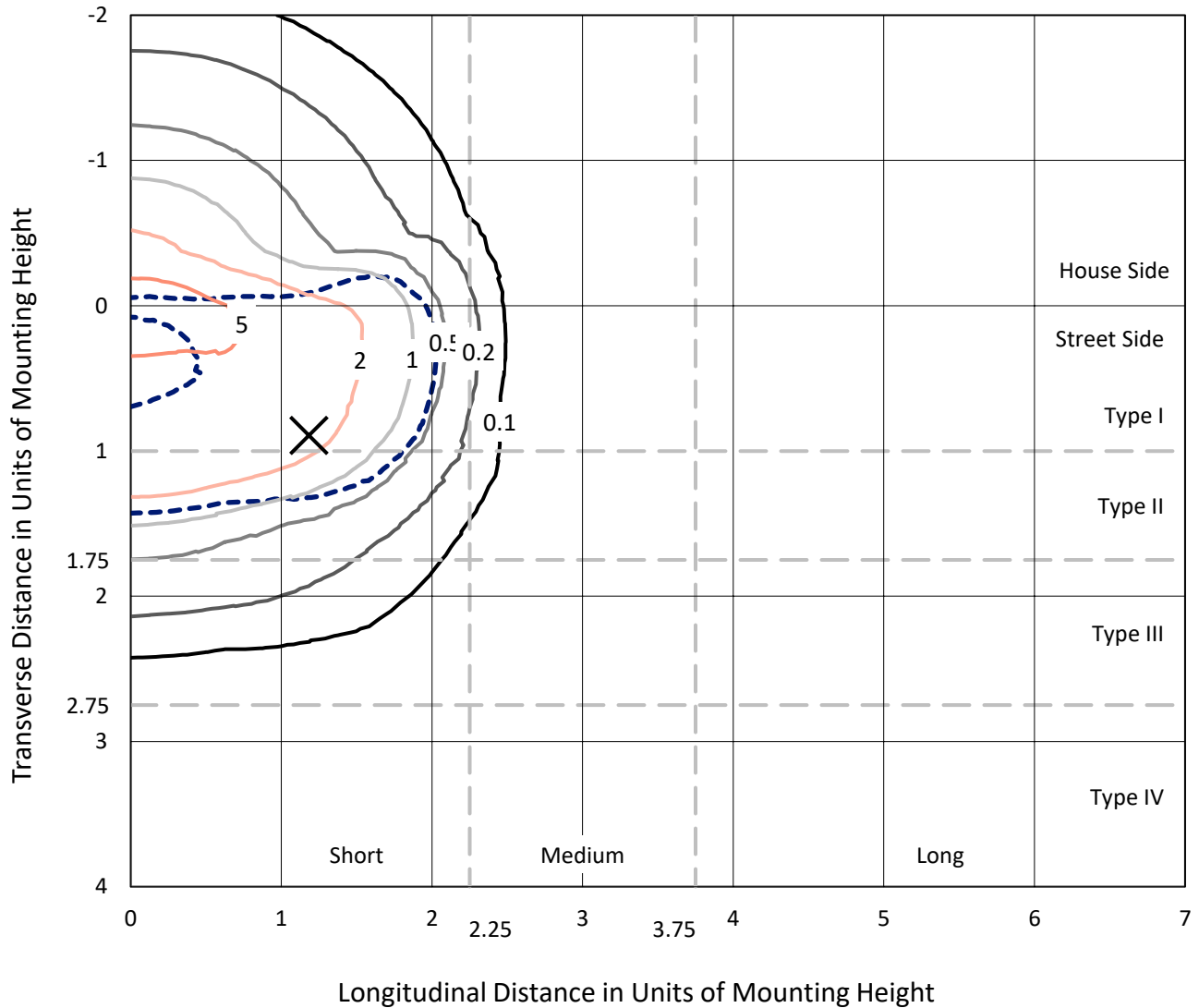
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

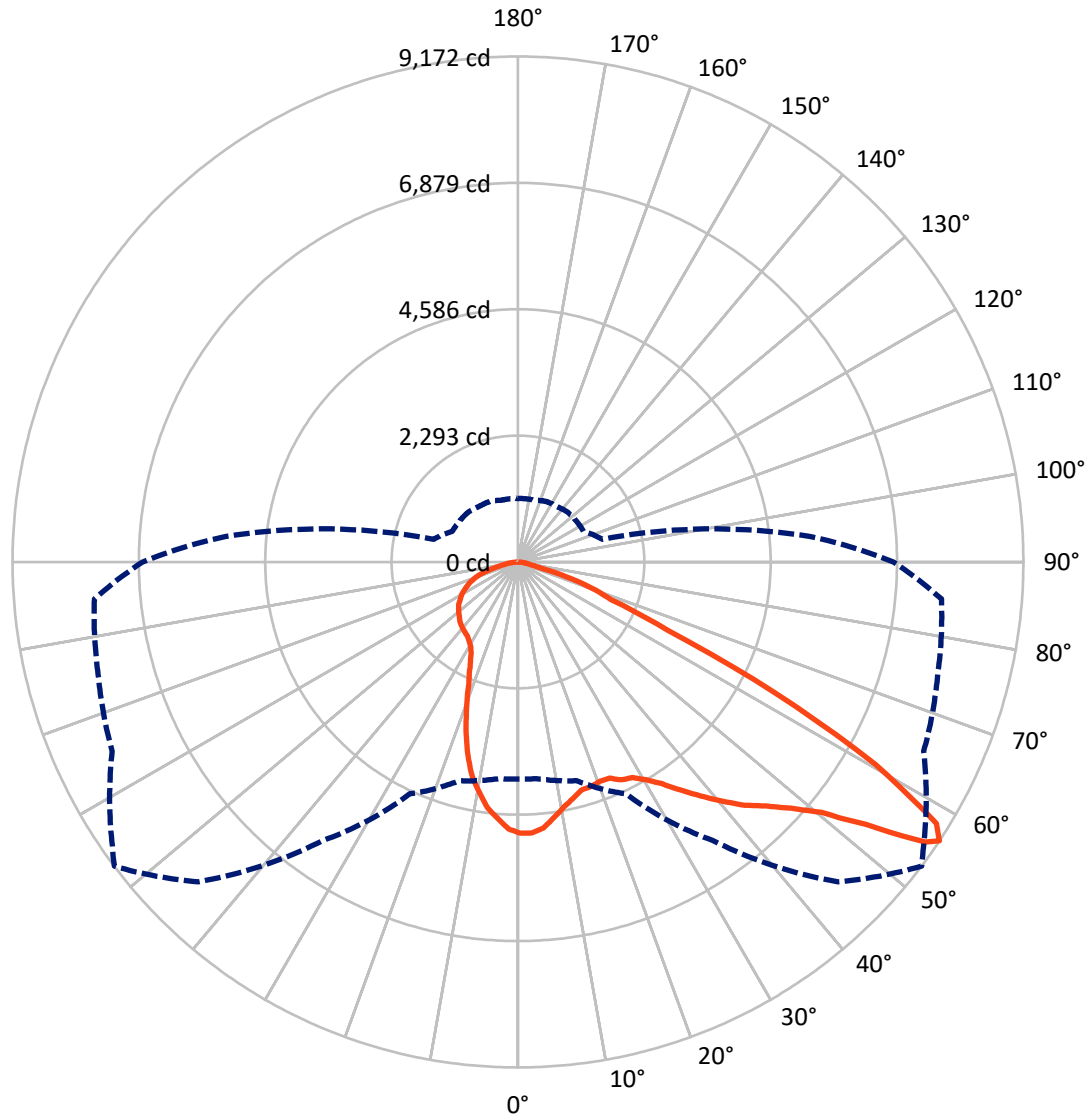
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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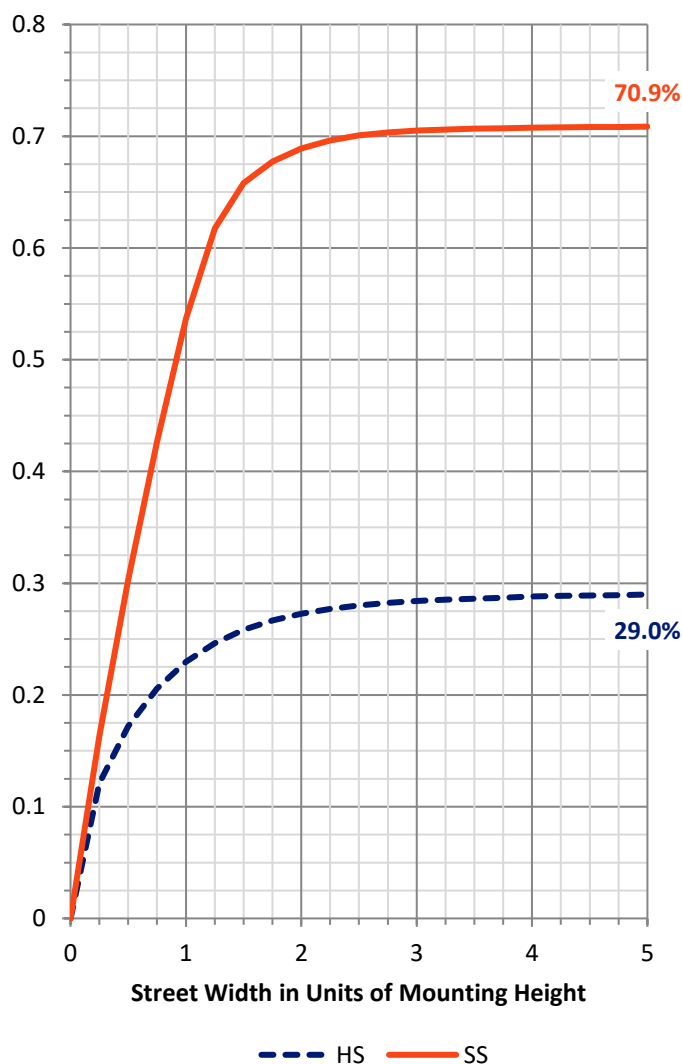
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4341.4	0.0	4341.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10535.6	0.0	10535.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	14877.0	0.0	14877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	2.9
10°-20°	1088.3	7.3
20°-30°	1604.7	10.8
30°-40°	2292.9	15.4
40°-50°	3155.8	21.2
50°-60°	3729.3	25.1
60°-70°	1987.5	13.4
70°-80°	504.2	3.4
80°-90°	78.6	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°	14877.0	100.0
0°-180°	14877.0	100.0

Coefficient of Utilization



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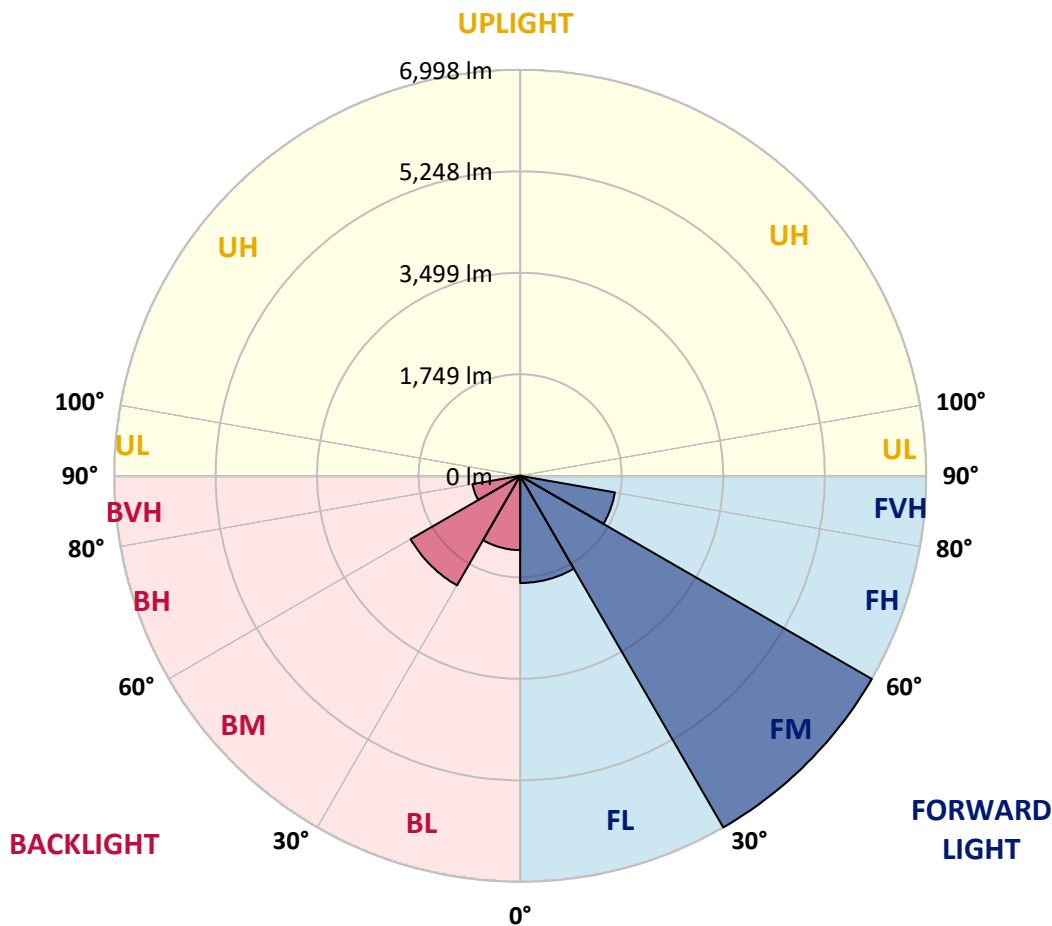
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.3	12.4			
FM (30°-60°)	6997.9	47.0			
FH (60°-80°)	1657.9	11.1			G1/1800
FVH (80°-90°)	31.6	0.2			G1/100
BL (0°-30°)	1280.5	8.6	B3/2500		
BM (30°-60°)	2180.1	14.7	B2/2500		
BH (60°-80°)	833.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	47.0	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°	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9
2.5°	4860.8	4818.8	4843.7	4834.1	4912.4	4935.3	4923.8	4933.3	4977.2	4956.3	4912.4
5°	4542.1	4601.3	4612.7	4641.4	4687.2	4776.9	4847.5	4866.6	4887.5	4984.9	4975.3
7.5°	4252.0	4292.1	4271.1	4355.1	4454.3	4599.4	4685.2	4700.5	4893.3	4946.7	4986.8
10°	4068.8	4028.7	4124.2	4147.1	4259.7	4425.7	4528.8	4591.7	4767.3	4979.2	5004.0
12.5°	3899.0	3885.6	3942.9	4007.7	4133.7	4305.5	4410.4	4435.2	4706.2	4929.5	5045.9
15°	3773.0	3757.7	3815.0	3862.7	4009.7	4162.3	4295.9	4366.5	4639.4	4900.9	5009.7
17.5°	3673.8	3671.9	3704.3	3790.2	3941.0	4068.8	4284.5	4288.3	4605.1	4944.8	5040.2
20°	3668.0	3666.1	3671.9	3767.3	3904.7	4061.2	4248.2	4282.6	4605.1	4914.3	5042.1
22.5°	3715.8	3685.2	3719.6	3780.6	3879.9	4074.5	4261.6	4337.9	4715.8	5065.0	5128.0
25°	3792.1	3799.7	3818.8	3839.8	3897.1	4105.1	4379.9	4442.9	4845.6	5194.8	5246.3
27.5°	3931.4	3927.6	3935.2	3946.7	3996.3	4133.7	4427.6	4589.8	5116.6	5425.7	5374.2
30°	4135.6	4122.3	4152.8	4192.9	4147.1	4225.3	4586.0	4708.2	5368.5	5658.6	5517.3
32.5°	4320.7	4370.4	4427.6	4444.8	4389.4	4404.7	4795.9	4920.0	5578.4	5944.8	5692.9
35°	4551.7	4591.7	4668.1	4721.5	4712.0	4666.2	5082.2	5246.3	5881.8	6154.8	5878.0
37.5°	4776.9	4824.6	4950.5	5108.9	5021.1	5000.1	5387.6	5523.1	5975.4	6267.4	6013.5
40°	5139.5	5137.6	5355.1	5437.2	5515.4	5479.2	5704.4	5750.2	6025.0	6242.5	6017.3
42.5°	5565.0	5538.3	5759.7	5887.6	5988.7	5992.5	6034.5	6019.3	6047.9	6116.6	5977.3
45°	5969.6	6026.9	6250.2	6479.2	6580.3	6591.8	6313.2	6284.5	6088.0	6080.3	5900.9
47.5°	6463.9	6477.3	6660.5	6962.0	7196.8	7116.6	6673.9	6610.9	6263.5	6322.7	6028.8
50°	6492.6	6591.8	6755.9	7110.9	7832.3	7811.3	7141.4	7023.1	6546.0	6666.2	6385.7
52.5°	5893.3	5870.4	6065.1	6645.2	7784.6	8502.2	7916.3	7633.8	7152.9	7061.3	6963.9
55°	4490.6	4544.0	4715.8	5301.7	6759.7	8511.7	8971.6	8740.7	7801.8	7645.3	7532.7
56°	3939.0	3946.7	4108.9	4643.3	6168.1	8208.3	9172.0	8985.0	8124.3	7885.7	7714.0
57.5°	3265.4	3221.5	3305.4	3597.4	5206.3	7567.0	8952.5	9135.8	8502.2	8145.3	7906.7
60°	2570.7	2561.1	2526.8	2580.2	3290.2	5700.5	7452.5	7864.7	8464.0	7901.0	7572.7
62.5°	2099.3	2051.6	2120.3	2196.6	2286.3	3536.4	5236.8	5479.2	6719.7	6307.4	5689.1
65°	1627.9	1605.0	1690.9	1939.0	1992.4	2246.2	2982.9	3169.9	3967.7	3897.1	3431.4
67.5°	1120.3	1124.1	1198.5	1576.4	1847.4	1824.5	1826.4	1923.7	2070.7	1538.2	1339.7
70°	709.9	708.0	748.1	1015.3	1486.7	1502.0	1425.6	1397.0	1324.5	801.5	849.3
72.5°	456.1	442.8	463.8	561.1	769.1	889.3	916.1	933.2	767.2	629.8	683.2
75°	257.6	244.3	236.6	261.5	303.4	351.2	385.5	397.0	444.7	477.1	505.7
77.5°	78.2	70.6	85.9	114.5	150.8	202.3	246.2	253.8	299.6	337.8	366.4
80°	34.4	38.2	53.4	76.3	106.9	143.1	173.7	185.1	215.7	244.3	251.9
82.5°	21.0	22.9	36.3	51.5	74.4	101.1	124.0	127.9	158.4	181.3	187.0
85°	7.6	9.5	19.1	30.5	47.7	64.9	64.9	70.6	64.9	64.9	70.6
87.5°	0.0	0.0	1.9	3.8	3.8	5.7	7.6	7.6	9.5	11.5	13.4
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°	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9
2.5°	4935.3	4925.7	4910.4	4855.1	4849.4	4832.2	4736.8	4721.5	4736.8	4691.0	4694.8
5°	4925.7	4954.3	4839.8	4784.5	4681.4	4607.0	4521.1	4477.2	4399.0	4349.4	4404.7
7.5°	4967.7	4956.3	4813.1	4692.9	4538.3	4349.4	4198.6	4112.7	3975.3	3937.1	3965.8
10°	4952.4	4891.4	4723.4	4565.0	4273.0	4107.0	3862.7	3626.1	3496.3	3429.5	3419.9
12.5°	4931.4	4914.3	4633.7	4360.8	4053.6	3704.3	3360.8	3137.5	2925.7	2834.1	2847.4
15°	4956.3	4811.2	4465.8	4120.3	3711.9	3253.9	2883.7	2595.5	2448.5	2389.4	2389.4
17.5°	4944.8	4761.6	4385.6	3851.3	3334.1	2792.1	2385.6	2211.9	2150.8	2150.8	2168.0
20°	4950.5	4794.0	4223.4	3582.2	2887.5	2351.2	2055.4	1992.4	2019.1	2028.7	2038.2
22.5°	4983.0	4687.2	4065.0	3286.4	2473.4	2011.5	1866.5	1868.4	1916.1	1967.6	1958.1
25°	5023.0	4645.2	3872.2	2992.5	2156.6	1845.5	1799.7	1793.9	1830.2	1856.9	1860.7
27.5°	4988.7	4572.7	3675.7	2626.0	1897.0	1734.8	1725.2	1729.1	1740.5	1793.9	1776.8
30°	5101.3	4593.6	3429.5	2318.8	1753.9	1698.5	1687.1	1681.3	1698.5	1713.8	1700.4
32.5°	5240.6	4519.2	3246.3	2023.0	1683.3	1671.8	1648.9	1641.3	1650.8	1635.5	1643.2
35°	5301.7	4505.9	3007.7	1811.1	1627.9	1618.4	1605.0	1603.1	1605.0	1591.6	1580.2
37.5°	5336.0	4568.8	2734.8	1713.8	1593.6	1603.1	1572.6	1568.7	1534.4	1542.0	1547.8
40°	5395.2	4471.5	2513.4	1620.3	1572.6	1553.5	1526.8	1521.0	1498.1	1484.8	1498.1
42.5°	5309.3	4442.9	2295.9	1580.2	1542.0	1521.0	1502.0	1469.5	1461.9	1450.4	1442.8
45°	5240.6	4278.7	2101.2	1530.6	1505.8	1494.3	1458.1	1423.7	1395.1	1406.5	1389.4
47.5°	5292.1	4221.5	1908.5	1488.6	1456.1	1442.8	1406.5	1379.8	1351.2	1337.8	1334.0
50°	5498.3	4328.4	1746.2	1458.1	1414.2	1406.5	1358.8	1328.3	1301.6	1292.0	1295.8
52.5°	5990.6	4620.4	1635.5	1395.1	1374.1	1339.7	1313.0	1274.8	1257.7	1227.1	1246.2
55°	6614.7	5095.6	1606.9	1335.9	1324.5	1293.9	1257.7	1229.0	1196.6	1171.8	1166.1
56°	6815.1	5322.7	1584.0	1313.0	1293.9	1276.8	1229.0	1211.9	1160.3	1154.6	1150.8
57.5°	6977.3	5523.1	1587.8	1269.1	1250.0	1234.8	1206.1	1164.2	1129.8	1108.8	1118.4
60°	6610.9	5170.0	1515.3	1202.3	1198.5	1169.9	1129.8	1110.7	1068.7	1043.9	1038.2
62.5°	4914.3	3509.6	1229.0	1116.4	1114.5	1084.0	1038.2	1017.2	1009.6	975.2	975.2
65°	2830.2	2200.4	1063.0	1045.8	1030.6	1000.0	954.2	937.0	918.0	906.5	897.0
67.5°	1208.1	1141.3	965.7	963.8	946.6	908.4	862.6	835.9	811.1	788.2	799.6
70°	876.0	889.3	872.2	862.6	841.6	793.9	753.8	721.4	683.2	668.0	679.4
72.5°	694.7	723.3	748.1	750.0	725.2	669.9	626.0	582.1	540.1	519.1	528.6
75°	526.7	545.8	570.6	576.4	540.1	501.9	459.9	414.1	381.7	356.9	360.7
77.5°	379.8	376.0	398.9	395.0	377.9	351.2	313.0	271.0	234.7	211.8	213.7
80°	259.5	265.3	278.6	276.7	255.7	238.6	209.9	175.6	148.9	129.8	126.0
82.5°	181.3	190.8	202.3	192.8	175.6	158.4	137.4	112.6	91.6	76.3	72.5
85°	64.9	74.4	85.9	91.6	97.3	93.5	78.2	63.0	45.8	38.2	36.3
87.5°	13.4	15.3	17.2	17.2	17.2	15.3	13.4	13.4	11.5	5.7	5.7
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)