

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: P529567

Luminaire Tested: **GALN-SA4D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16927 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

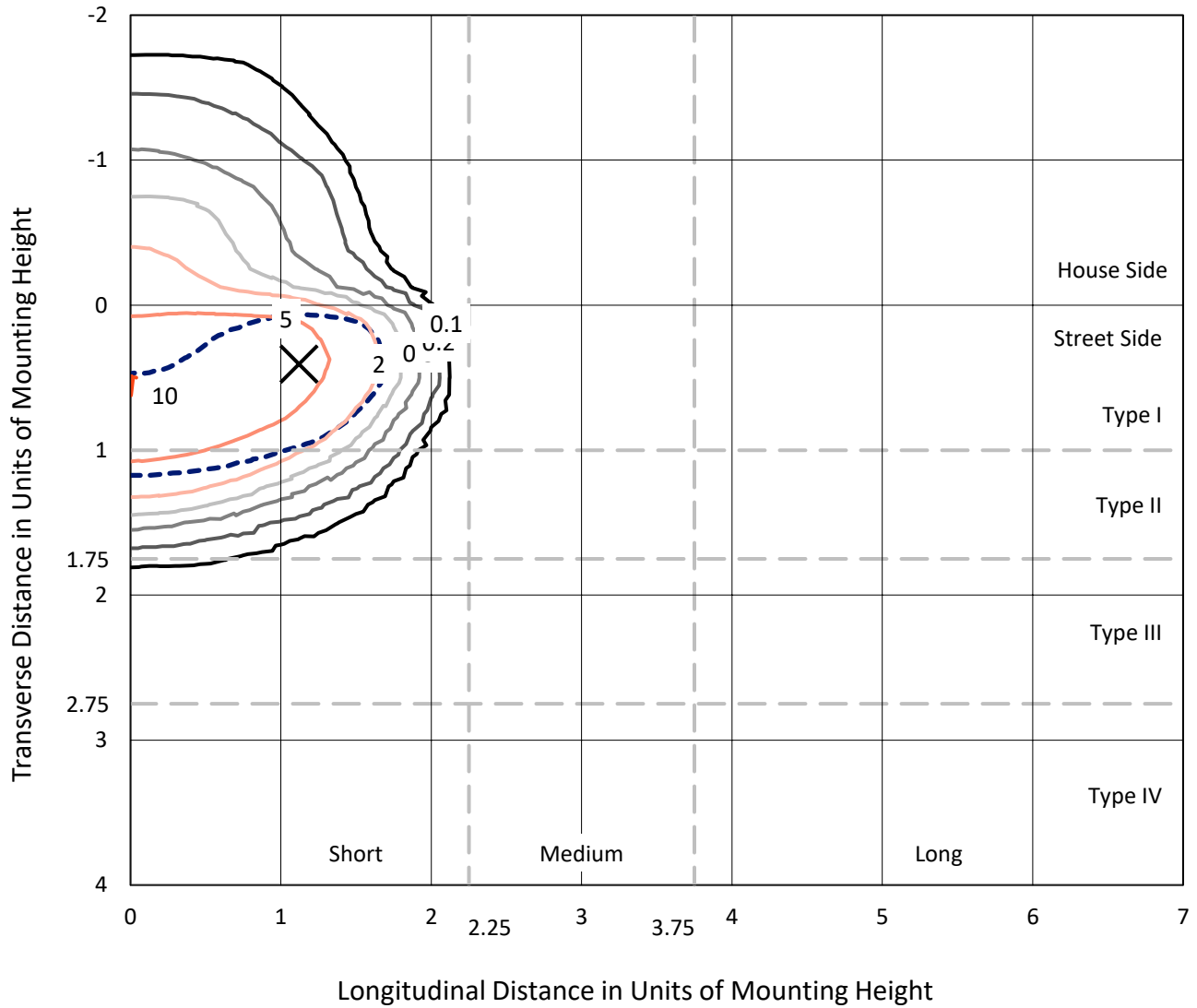
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

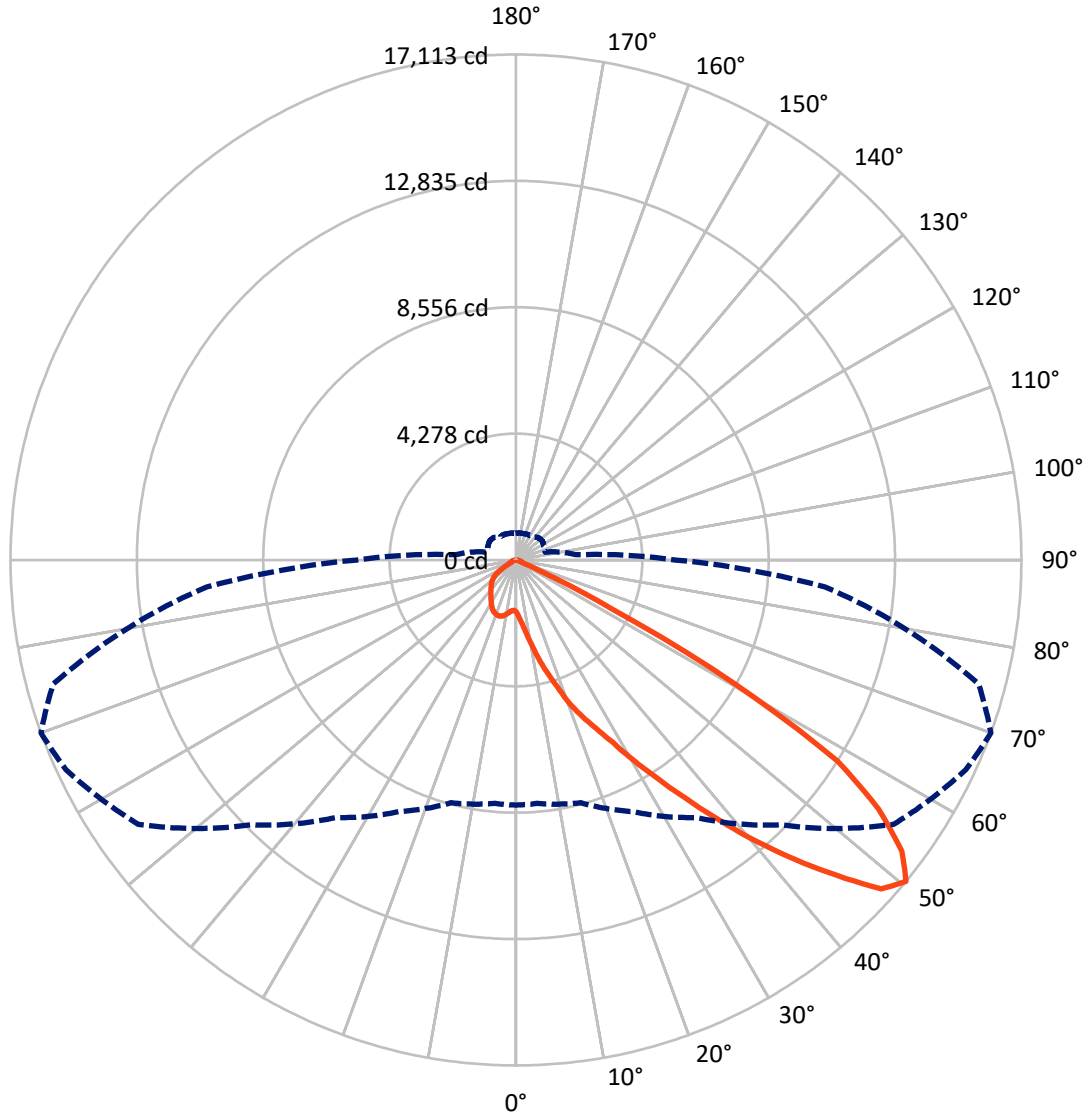
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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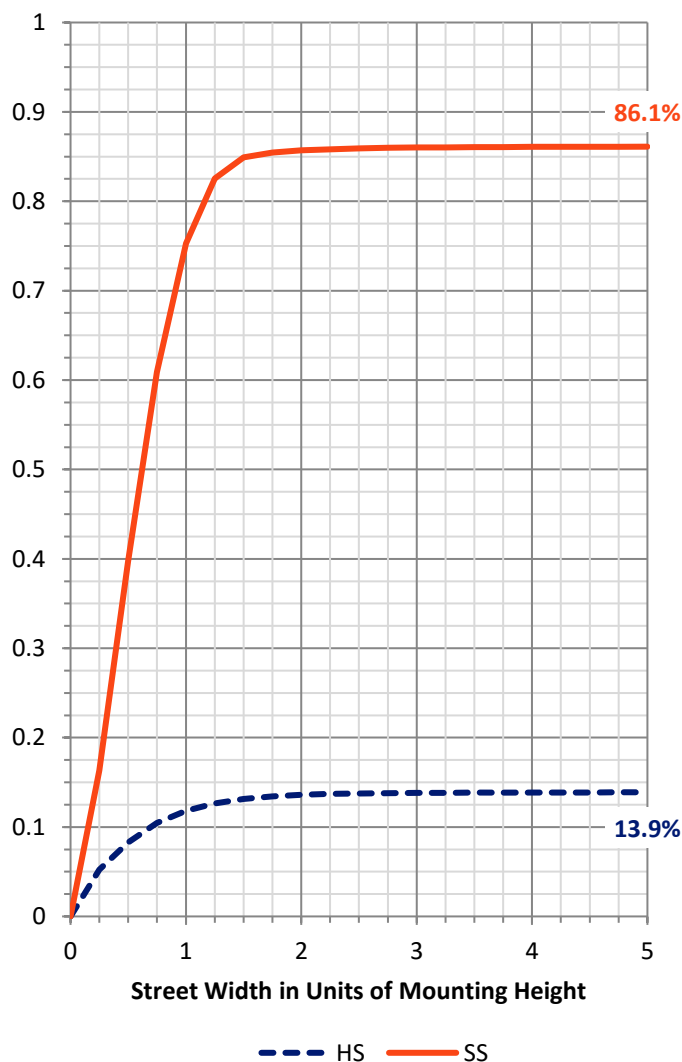
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2364.0	0.0	2364.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14563.0	0.0	14563.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	16927.0	0.0	16927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.3
10°-20°	986.2	5.8
20°-30°	2068.9	12.2
30°-40°	3566.1	21.1
40°-50°	5211.9	30.8
50°-60°	4059.2	24.0
60°-70°	687.7	4.1
70°-80°	94.5	0.6
80°-90°	24.5	0.1
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°	16927.0	100.0
0°-180°	16927.0	100.0

Coefficient of Utilization



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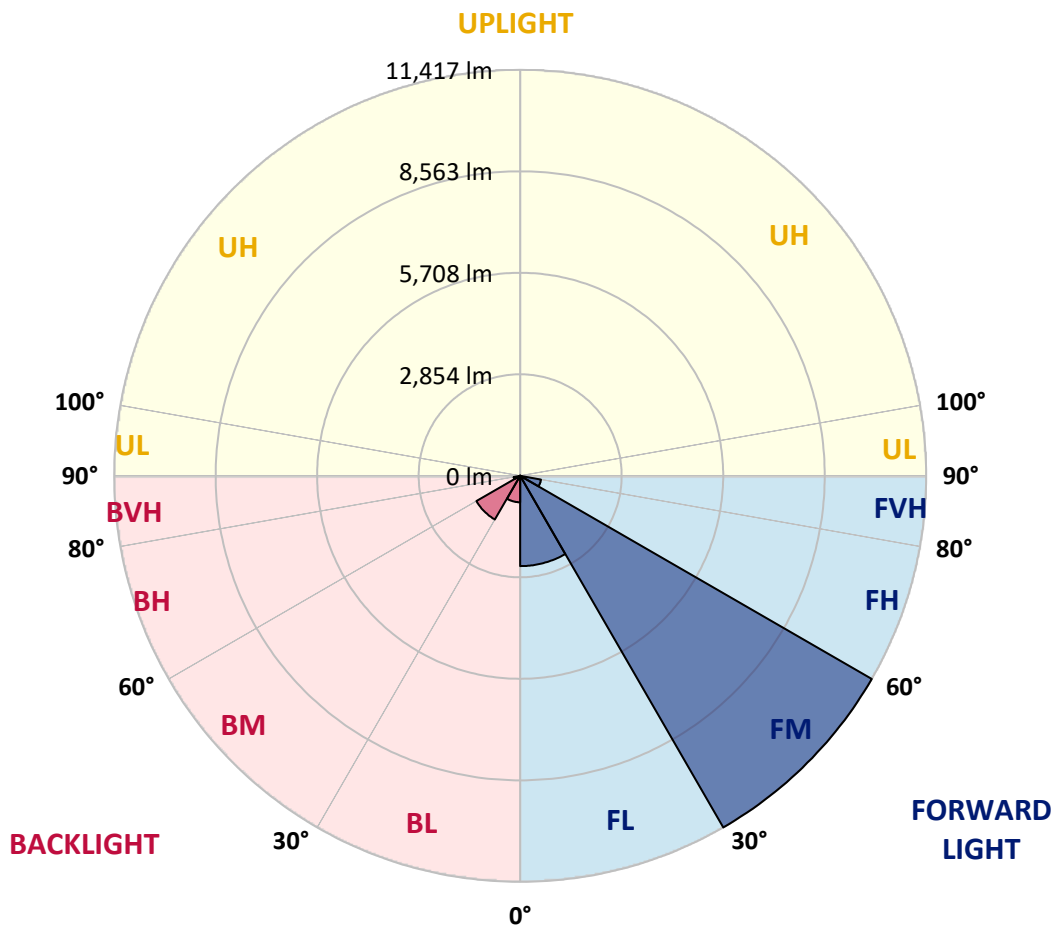
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2539.2	15.0			
FM (30°-60°)	11417.0	67.4			
FH (60°-80°)	595.5	3.5			G0/660
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	743.9	4.4	B2/1000		
BM (30°-60°)	1420.2	8.4	B2/2500		
BH (60°-80°)	186.7	1.1	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3
2.5°	2296.0	2279.3	2243.1	2176.3	2148.5	2081.7	2042.7	1967.6	1920.3	1867.4	1809.0
5°	3233.9	3147.6	3094.7	3019.6	2799.7	2663.4	2437.9	2245.9	2156.8	2059.4	1925.9
7.5°	4202.4	4146.7	4074.3	3912.9	3762.6	3478.8	3091.9	2668.9	2488.0	2321.0	2056.7
10°	5003.9	4848.0	4839.7	4720.0	4555.8	4216.3	3751.5	3225.5	2902.7	2657.8	2243.1
12.5°	5563.3	5421.3	5485.3	5471.4	5318.4	5006.7	4469.5	3773.8	3437.0	3055.8	2435.1
15°	6072.6	6014.1	5994.6	5977.9	5916.7	5685.7	5204.3	4441.7	3954.7	3495.5	2652.2
17.5°	6570.7	6420.4	6492.8	6506.7	6501.1	6292.4	5841.6	5076.2	4502.9	3960.2	2880.4
20°	7013.2	7027.1	6929.7	6910.2	6893.5	6885.2	6445.5	5705.2	5176.4	4447.3	3178.2
22.5°	7581.0	7483.5	7569.8	7514.2	7405.6	7338.8	7002.1	6261.8	5760.9	5034.5	3481.6
25°	8251.7	8329.6	8126.4	8104.2	7984.5	7753.5	7450.1	6885.2	6323.0	5580.0	3810.0
27.5°	9078.2	8941.8	8889.0	8766.5	8549.4	8452.0	8095.8	7528.1	7002.1	6153.3	4127.2
30°	9787.9	9751.7	9487.3	9342.6	9153.4	9150.6	8652.4	8399.2	7887.1	7052.2	4564.2
32.5°	10366.8	10208.1	10110.7	10010.5	9857.5	9899.2	9479.0	9345.4	8830.5	7887.1	5079.0
35°	10753.6	10639.5	10581.0	10428.0	10383.5	10569.9	10394.6	10338.9	9915.9	9061.5	5682.9
37.5°	10876.1	10912.2	10901.1	10709.1	10803.7	11307.4	11532.8	11388.1	11165.5	10300.0	6336.9
40°	10984.6	11009.6	10954.0	11179.4	11449.4	12022.7	12838.1	12598.7	12515.3	11555.1	7247.0
42.5°	11045.8	11026.3	11026.3	11416.0	11825.1	12977.2	14098.8	13940.2	13876.1	12891.0	8299.0
45°	10781.4	10592.2	10795.3	11324.1	12147.9	13447.6	15106.2	15326.1	15234.3	14480.1	9529.1
47.5°	9793.5	9910.3	10024.4	10731.3	11755.5	13302.8	15724.1	16472.7	16642.5	15815.9	10336.1
50°	8299.0	8273.9	8510.5	9401.0	10645.1	12679.4	15604.4	16803.9	17112.8	16216.7	10505.9
52.5°	6036.4	6220.1	6476.1	7361.1	8836.1	11065.3	14059.8	15949.5	16361.4	15724.1	10394.6
55°	3515.0	3311.8	3887.9	4636.5	6028.0	8346.3	11886.3	14137.8	14900.3	14827.9	9832.4
57.5°	1408.2	1363.7	1561.3	2104.0	3144.8	5173.6	8644.1	11616.3	12838.1	13581.1	8641.3
60°	617.8	603.9	709.7	857.2	1285.8	2385.0	4728.4	7224.7	8499.3	9490.1	5947.3
62.5°	445.3	439.7	492.6	545.5	679.1	1038.1	1987.1	2911.0	3629.1	4383.3	2663.4
65°	359.0	372.9	409.1	436.9	500.9	576.1	701.3	809.9	993.5	1029.7	587.2
67.5°	292.2	303.3	336.7	367.4	378.5	311.7	322.8	283.9	283.9	253.3	203.2
70°	214.3	217.1	256.0	292.2	233.8	125.2	219.9	219.9	197.6	189.2	172.5
72.5°	158.6	161.4	192.0	180.9	91.8	77.9	161.4	178.1	161.4	153.1	139.2
75°	116.9	119.7	100.2	41.7	39.0	50.1	94.6	122.5	116.9	114.1	105.8
77.5°	22.3	16.7	13.9	19.5	27.8	41.7	61.2	75.1	77.9	83.5	77.9
80°	2.8	2.8	8.3	16.7	30.6	44.5	64.0	72.4	75.1	77.9	72.4
82.5°	0.0	2.8	8.3	16.7	30.6	41.7	55.7	64.0	69.6	72.4	69.6
85°	0.0	2.8	5.6	13.9	25.0	30.6	27.8	19.5	16.7	19.5	13.9
87.5°	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3	1753.3
2.5°	1775.6	1764.4	1725.5	1683.7	1647.5	1664.2	1647.5	1633.6	1639.2	1633.6	1628.1
5°	1873.0	1822.9	1739.4	1703.2	1672.6	1669.8	1661.5	1658.7	1661.5	1661.5	1636.4
7.5°	1964.8	1884.1	1795.0	1756.1	1719.9	1722.7	1703.2	1703.2	1700.4	1686.5	1680.9
10°	2104.0	1995.4	1881.3	1811.7	1767.2	1758.9	1739.4	1719.9	1719.9	1719.9	1692.1
12.5°	2257.0	2120.7	1964.8	1884.1	1831.2	1789.5	1758.9	1753.3	1722.7	1717.1	1703.2
15°	2390.6	2218.1	2020.5	1909.2	1842.4	1786.7	1739.4	1708.8	1694.9	1686.5	1675.4
17.5°	2521.4	2301.6	2051.1	1909.2	1836.8	1772.8	1722.7	1694.9	1661.5	1667.0	1644.8
20°	2696.7	2390.6	2059.4	1873.0	1783.9	1722.7	1655.9	1642.0	1622.5	1605.8	1611.4
22.5°	2866.5	2454.6	2034.4	1828.4	1700.4	1628.1	1594.7	1578.0	1569.6	1555.7	1536.2
25°	3019.6	2524.2	1995.4	1747.7	1611.4	1558.5	1527.9	1525.1	1505.6	1505.6	1469.4
27.5°	3175.4	2549.2	1928.6	1653.1	1533.4	1502.8	1488.9	1483.4	1475.0	1455.5	1430.5
30°	3353.5	2557.6	1831.2	1555.7	1463.9	1430.5	1450.0	1463.9	1427.7	1391.5	1402.6
32.5°	3501.0	2538.1	1714.3	1463.9	1413.8	1397.1	1436.0	1450.0	1408.2	1369.2	1349.8
35°	3679.2	2490.8	1600.2	1391.5	1363.7	1397.1	1430.5	1430.5	1347.0	1299.7	1288.5
37.5°	3949.1	2437.9	1494.5	1330.3	1310.8	1380.4	1424.9	1394.3	1263.5	1205.0	1191.1
40°	4238.5	2404.5	1391.5	1269.1	1283.0	1352.5	1377.6	1283.0	1149.4	1113.2	1102.1
42.5°	4658.8	2337.7	1299.7	1216.2	1257.9	1313.6	1313.6	1143.8	1093.7	1074.2	1071.5
45°	5182.0	2290.4	1219.0	1171.7	1221.7	1235.7	1191.1	1071.5	1035.3	1029.7	1032.5
47.5°	5438.0	2198.6	1135.5	1118.8	1155.0	1157.7	1040.9	1013.0	982.4	974.1	968.5
50°	5399.1	2034.4	1026.9	1049.2	1099.3	1071.5	949.0	954.6	926.7	924.0	910.0
52.5°	5126.3	1775.6	918.4	971.3	1026.9	946.2	873.9	868.3	868.3	832.1	818.2
55°	4544.7	1430.5	787.6	854.4	921.2	795.9	776.5	770.9	757.0	723.6	715.2
57.5°	3598.4	1049.2	592.8	665.1	782.0	676.3	673.5	648.4	612.3	587.2	587.2
60°	2140.1	603.9	372.9	406.3	517.6	548.3	609.5	598.3	537.1	498.2	487.0
62.5°	976.8	311.7	236.6	242.1	278.3	356.2	478.7	553.8	467.5	400.8	395.2
65°	328.4	231.0	194.8	186.5	192.0	214.3	286.7	392.4	372.9	308.9	297.8
67.5°	200.4	205.9	183.7	169.8	169.8	167.0	164.2	178.1	219.9	214.3	217.1
70°	172.5	189.2	169.8	153.1	147.5	139.2	116.9	97.4	83.5	97.4	103.0
72.5°	139.2	150.3	144.7	130.8	116.9	105.8	83.5	64.0	47.3	41.7	41.7
75°	103.0	111.3	116.9	100.2	89.1	75.1	61.2	41.7	25.0	16.7	16.7
77.5°	75.1	83.5	86.3	77.9	66.8	52.9	39.0	27.8	13.9	5.6	5.6
80°	64.0	75.1	83.5	77.9	69.6	50.1	36.2	19.5	11.1	2.8	2.8
82.5°	61.2	75.1	83.5	75.1	66.8	47.3	36.2	22.3	8.3	2.8	2.8
85°	13.9	19.5	25.0	30.6	36.2	36.2	27.8	16.7	8.3	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	0.0
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)