

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: P529788

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529788
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-SA5A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 17282 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

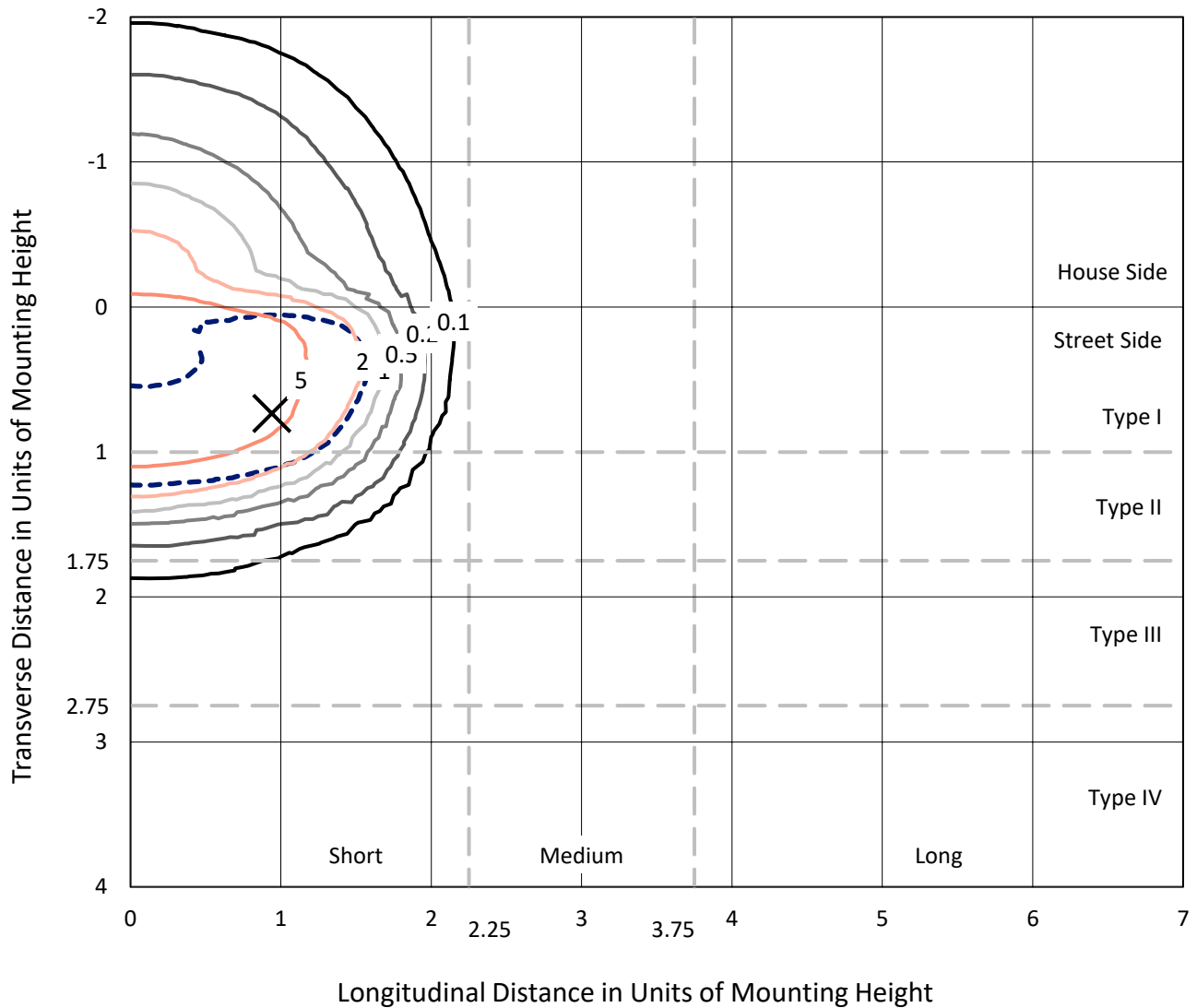
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

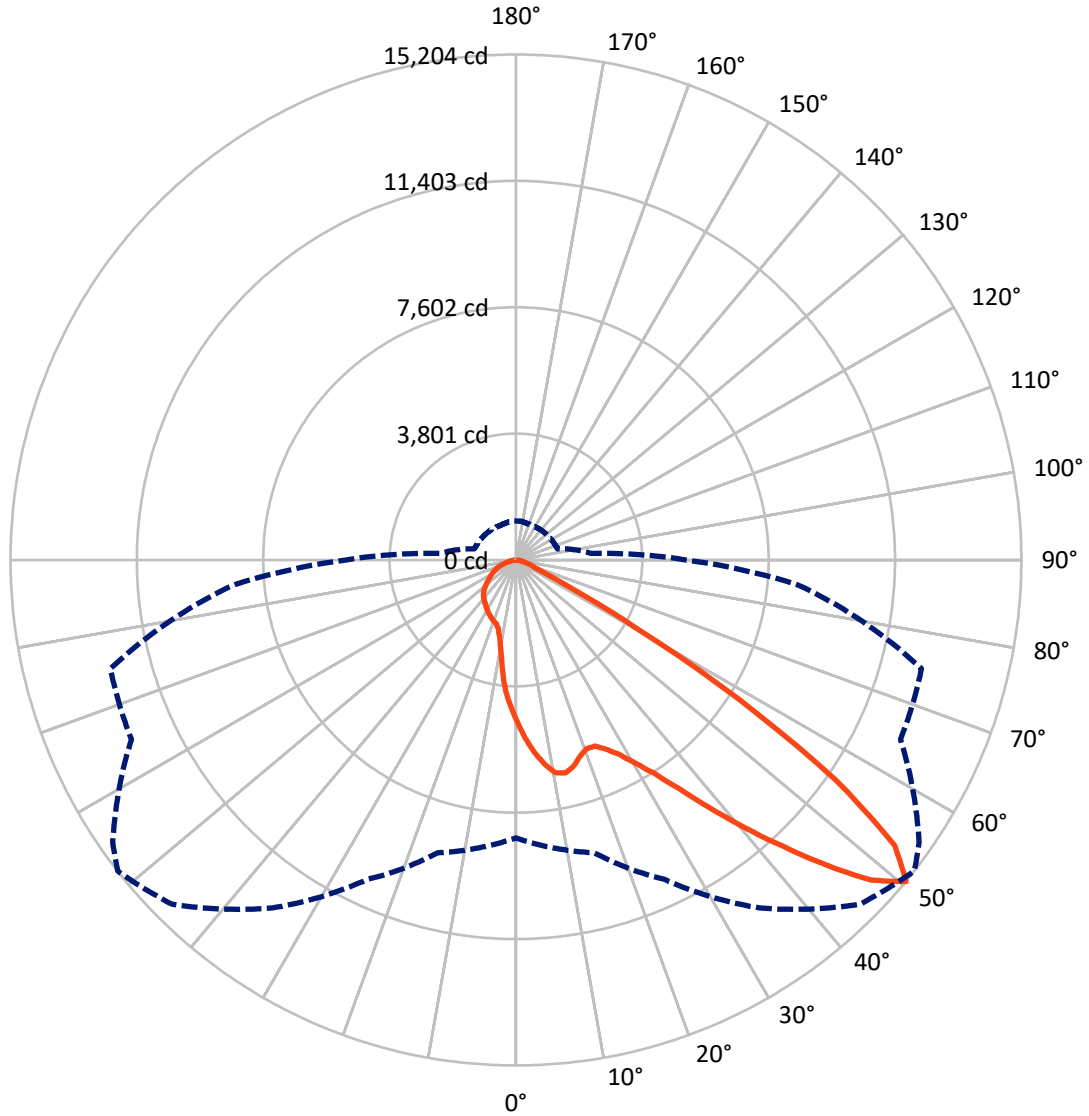
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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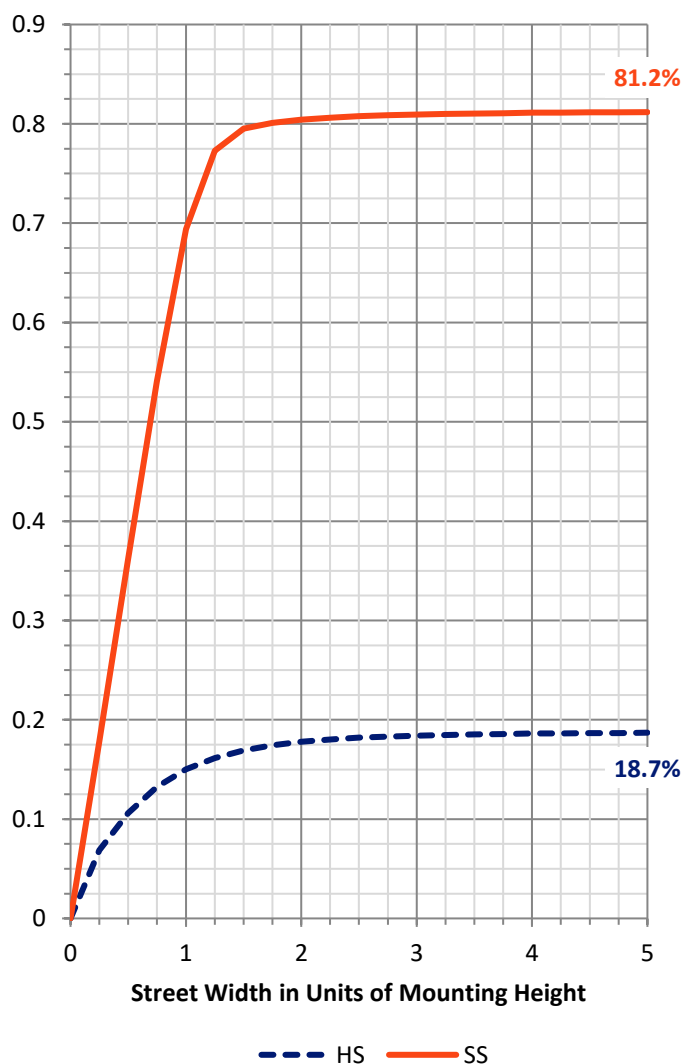
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.6	0.0	3248.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14033.4	0.0	14033.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	17282.0	0.0	17282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	2.6
10°-20°	1203.4	7.0
20°-30°	2027.2	11.7
30°-40°	3401.7	19.7
40°-50°	5203.8	30.1
50°-60°	3794.0	22.0
60°-70°	844.4	4.9
70°-80°	304.5	1.8
80°-90°	53.9	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°	17282.0	100.0
0°-180°	17282.0	100.0

Coefficient of Utilization



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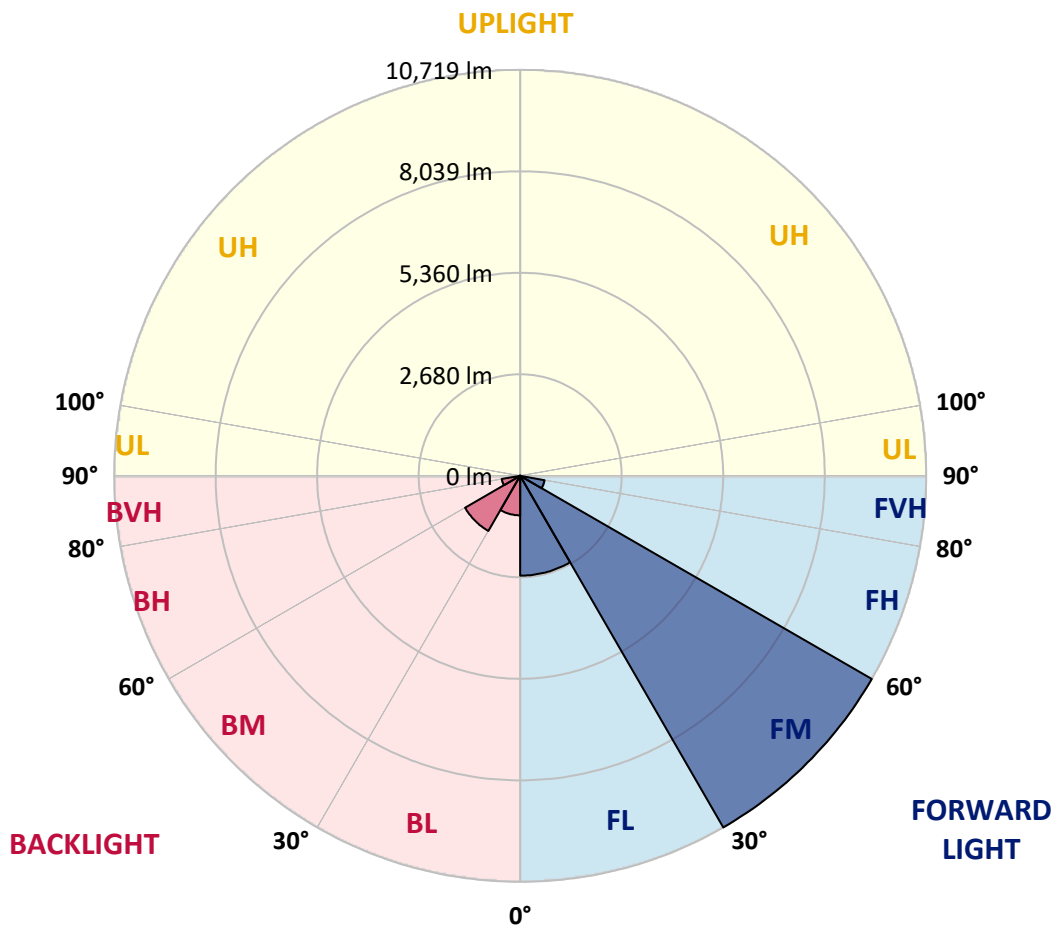
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2636.1	15.3			
FM (30°-60°)	10719.2	62.0			
FH (60°-80°)	654.0	3.8			G0/660
FVH (80°-90°)	24.2	0.1			G1/100
BL (0°-30°)	1043.5	6.0	B3/2500		
BM (30°-60°)	1680.4	9.7	B2/2500		
BH (60°-80°)	494.9	2.9	B1/500		G1/500
BVH (80°-90°)	29.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5
2.5°	5735.8	5625.5	5638.0	5558.8	5473.4	5448.4	5361.0	5277.6	5215.2	5081.9	4959.0
5°	6269.0	6235.7	6185.7	6123.2	6058.7	5900.4	5810.8	5706.7	5477.6	5271.4	5067.3
7.5°	6346.1	6339.8	6366.9	6366.9	6389.8	6329.4	6202.4	6129.5	5885.8	5550.5	5171.4
10°	5804.6	5823.3	5954.5	6125.3	6362.7	6527.3	6506.5	6487.7	6221.1	5762.9	5294.3
12.5°	5373.4	5331.8	5408.9	5554.6	5910.8	6308.6	6577.3	6579.3	6510.6	6102.4	5383.9
15°	5129.8	5158.9	5179.8	5248.5	5517.2	5977.4	6450.2	6589.8	6891.8	6341.9	5525.5
17.5°	5286.0	5188.1	5183.9	5200.6	5338.0	5683.8	6214.9	6454.4	7100.0	6650.2	5700.4
20°	5490.1	5488.0	5429.7	5408.9	5406.8	5715.0	6060.7	6385.7	7210.4	7050.0	5877.5
22.5°	5848.3	5848.3	5752.5	5706.7	5608.8	5860.8	6081.6	6302.3	7393.7	7325.0	5962.9
25°	6448.1	6350.2	6185.7	6073.2	6017.0	6106.6	6302.3	6500.2	7554.1	7616.5	6139.9
27.5°	7002.1	6848.0	6766.8	6573.1	6498.1	6446.1	6625.2	6825.1	7741.5	8070.6	6235.7
30°	7631.1	7604.1	7458.3	7208.3	7023.0	6927.2	7091.7	7289.6	8085.2	8535.0	6456.5
32.5°	8755.8	8510.0	8312.2	8006.0	7704.0	7499.9	7662.4	7793.6	8655.8	9020.3	6698.1
35°	9970.0	9890.9	9549.3	8997.4	8535.0	8351.8	8447.6	8545.4	9320.2	9761.8	7104.2
37.5°	11163.4	11055.1	10774.0	10309.5	9747.2	9374.4	9443.1	9557.7	10065.8	10761.5	7599.9
40°	12021.5	11888.2	11746.6	11677.9	11119.7	10609.4	10569.9	10599.0	11073.9	11698.7	8149.7
42.5°	12084.0	12248.5	12292.3	12569.3	12438.1	12019.4	11775.8	11782.0	12036.1	12625.5	8705.8
45°	11952.8	11800.8	12123.6	12879.6	13312.8	13508.6	13098.3	13046.2	12631.8	13162.9	8982.8
47.5°	10576.1	10617.8	11163.4	12358.9	13610.7	14485.4	14389.6	14216.7	12950.4	13144.1	8939.1
50°	8360.1	8612.1	9118.2	10607.4	12777.6	14639.5	15203.9	14804.1	12760.9	12627.6	8493.4
52.5°	5567.1	5671.3	6004.5	7926.9	10274.1	13085.8	14266.7	14358.4	12585.9	11950.7	7929.0
55°	2478.5	2470.1	2938.7	4140.5	6446.1	9957.5	11657.0	12215.2	11913.2	11261.3	7379.1
57.5°	1049.7	1085.1	1276.7	1789.1	3169.9	6008.7	7897.7	8387.2	9161.9	9247.3	5660.9
60°	710.2	714.4	766.4	895.6	1326.7	2822.1	4142.6	4729.9	5283.9	5246.4	3003.3
62.5°	558.2	572.8	612.3	664.4	787.3	1280.9	1853.6	2180.6	2216.0	1864.0	1139.3
65°	476.9	479.0	518.6	562.3	616.5	745.6	893.5	910.2	920.6	887.2	837.3
67.5°	393.6	397.8	429.0	479.0	529.0	570.7	612.3	633.2	681.1	774.8	762.3
70°	312.4	318.7	345.7	387.4	433.2	458.2	510.3	529.0	572.8	645.6	674.8
72.5°	237.4	239.5	262.4	291.6	333.2	358.2	402.0	422.8	452.0	514.4	541.5
75°	170.8	177.0	193.7	208.3	214.5	231.2	272.8	295.7	337.4	364.5	366.6
77.5°	89.6	93.7	97.9	97.9	118.7	150.0	177.0	189.5	218.7	239.5	229.1
80°	35.4	37.5	47.9	64.6	83.3	108.3	127.0	133.3	158.3	170.8	177.0
82.5°	20.8	22.9	31.2	45.8	60.4	77.1	91.6	97.9	114.6	129.1	133.3
85°	10.4	12.5	18.7	29.2	39.6	47.9	45.8	43.7	43.7	41.7	43.7
87.5°	4.2	4.2	6.2	6.2	6.2	8.3	10.4	10.4	10.4	12.5	12.5
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°	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5
2.5°	4877.8	4794.4	4717.4	4575.8	4421.6	4377.9	4198.8	4134.2	4088.4	4034.3	4017.6
5°	4902.8	4792.4	4544.5	4259.2	4032.2	3740.6	3549.0	3342.8	3192.8	3155.3	3144.9
7.5°	4954.8	4765.3	4338.3	3907.2	3442.8	3047.0	2745.0	2582.6	2438.9	2430.5	2416.0
10°	5013.1	4684.1	4113.4	3436.5	2842.9	2476.4	2295.2	2224.4	2189.0	2180.6	2176.5
12.5°	5061.0	4667.4	3861.4	2978.3	2418.1	2197.3	2143.1	2136.9	2151.5	2155.6	2164.0
15°	5081.9	4600.8	3557.3	2568.0	2153.5	2072.3	2095.2	2120.2	2130.6	2157.7	2136.9
17.5°	5121.4	4515.4	3182.4	2243.1	2005.7	2020.2	2059.8	2089.0	2105.6	2124.4	2097.3
20°	5142.3	4438.3	2830.4	2049.4	1953.6	1980.7	2034.8	2057.7	2078.6	2086.9	2055.7
22.5°	5123.5	4280.0	2520.1	1893.2	1903.6	1939.0	1986.9	2011.9	1999.4	1966.1	1947.4
25°	5073.5	4057.2	2197.3	1793.2	1832.8	1895.3	1932.8	1914.0	1891.1	1872.4	1866.1
27.5°	5071.5	3784.3	1964.0	1701.6	1772.4	1857.8	1845.3	1828.6	1839.1	1824.5	1807.8
30°	5081.9	3519.8	1772.4	1649.5	1728.7	1770.3	1784.9	1768.2	1780.7	1753.7	1762.0
32.5°	5027.7	3261.6	1647.4	1589.1	1676.6	1674.5	1722.4	1734.9	1705.8	1649.5	1657.9
35°	5050.6	3053.3	1541.2	1562.0	1618.3	1618.3	1655.8	1641.2	1564.1	1530.8	1539.1
37.5°	5208.9	2849.2	1489.2	1524.6	1562.0	1578.7	1566.2	1503.7	1485.0	1485.0	1489.2
40°	5358.9	2674.2	1457.9	1516.2	1510.0	1520.4	1428.8	1435.0	1435.0	1437.1	1426.7
42.5°	5492.2	2555.5	1432.9	1466.2	1476.7	1422.5	1366.3	1360.0	1374.6	1372.5	1364.2
45°	5540.1	2457.6	1397.5	1410.0	1418.3	1328.8	1301.7	1289.2	1305.9	1312.1	1320.5
47.5°	5356.8	2376.4	1357.9	1332.9	1316.3	1258.0	1222.6	1199.7	1220.5	1255.9	1264.2
50°	5121.4	2270.2	1295.5	1247.6	1212.1	1187.2	1162.2	1139.3	1153.8	1178.8	1172.6
52.5°	4773.6	2103.6	1216.3	1166.3	1105.9	1112.2	1089.3	1076.8	1085.1	1085.1	1078.9
55°	4277.9	1728.7	1083.0	1047.6	997.6	1014.3	1018.5	1001.8	985.1	999.7	987.2
57.5°	2920.0	1220.5	966.4	966.4	916.4	939.3	937.2	897.7	858.1	862.3	853.9
60°	1689.1	972.6	891.4	883.1	831.0	849.8	853.9	826.8	766.4	770.6	762.3
62.5°	960.1	831.0	778.9	766.4	756.0	772.7	772.7	737.3	685.2	689.4	681.1
65°	816.4	770.6	695.6	693.5	689.4	693.5	676.9	639.4	593.6	574.8	576.9
67.5°	741.5	712.3	639.4	620.7	608.2	606.1	574.8	539.4	518.6	501.9	499.9
70°	649.8	626.9	572.8	547.8	535.3	506.1	474.9	452.0	422.8	414.5	422.8
72.5°	514.4	512.4	491.5	464.4	437.4	414.5	387.4	356.1	329.1	322.8	308.2
75°	356.1	360.3	364.5	360.3	337.4	308.2	277.0	252.0	218.7	199.9	195.8
77.5°	233.3	239.5	245.8	237.4	222.9	195.8	174.9	143.7	118.7	104.1	102.1
80°	170.8	179.1	183.3	177.0	160.4	139.5	116.6	91.6	72.9	60.4	60.4
82.5°	131.2	139.5	143.7	133.3	116.6	100.0	83.3	64.6	50.0	39.6	37.5
85°	45.8	43.7	52.1	54.2	64.6	60.4	50.0	37.5	29.2	20.8	18.7
87.5°	12.5	12.5	14.6	14.6	12.5	10.4	10.4	10.4	8.3	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)