

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: P530035

Luminaire Tested: **GALN-SA5B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530035
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-SA5B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 15761 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

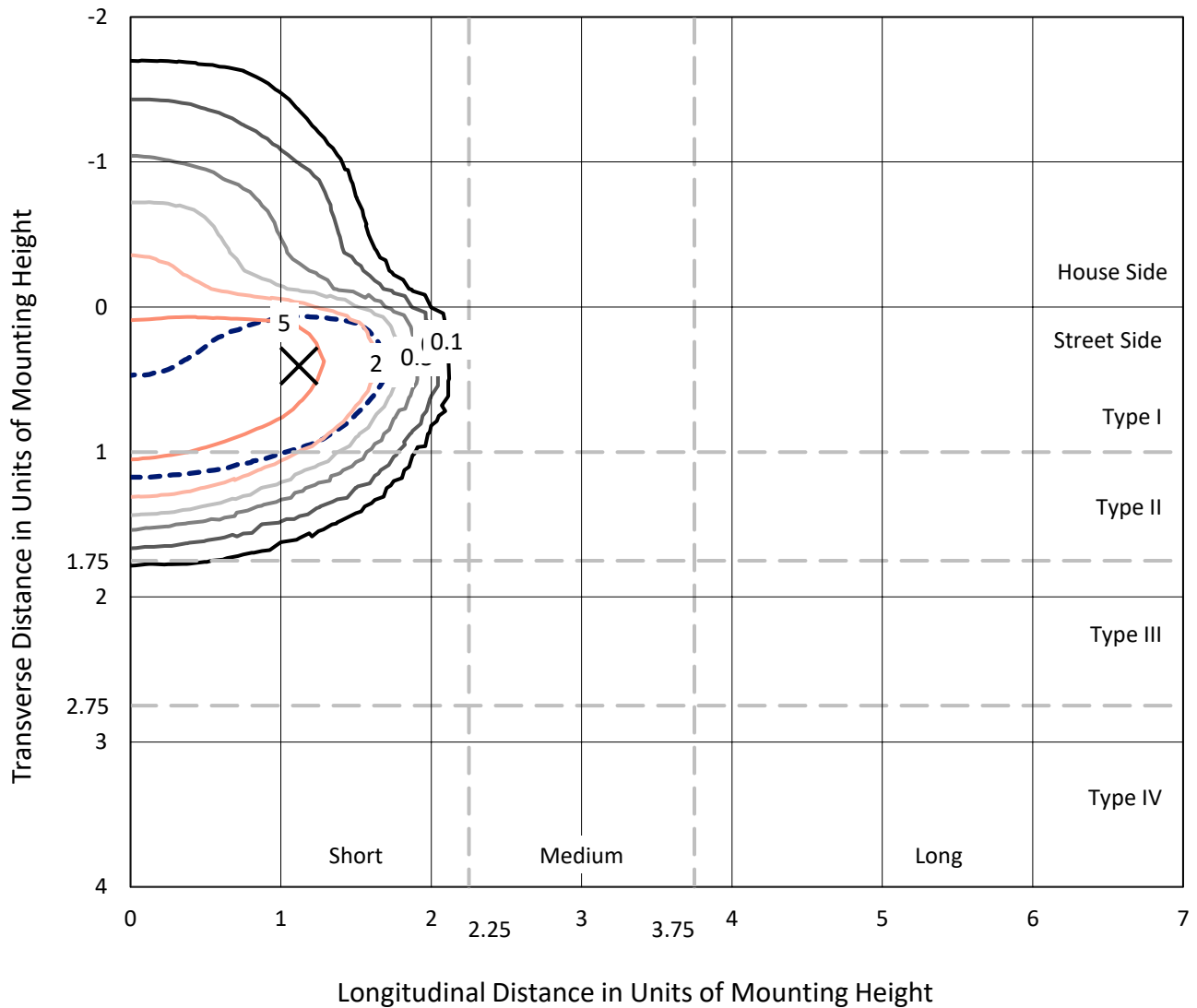
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

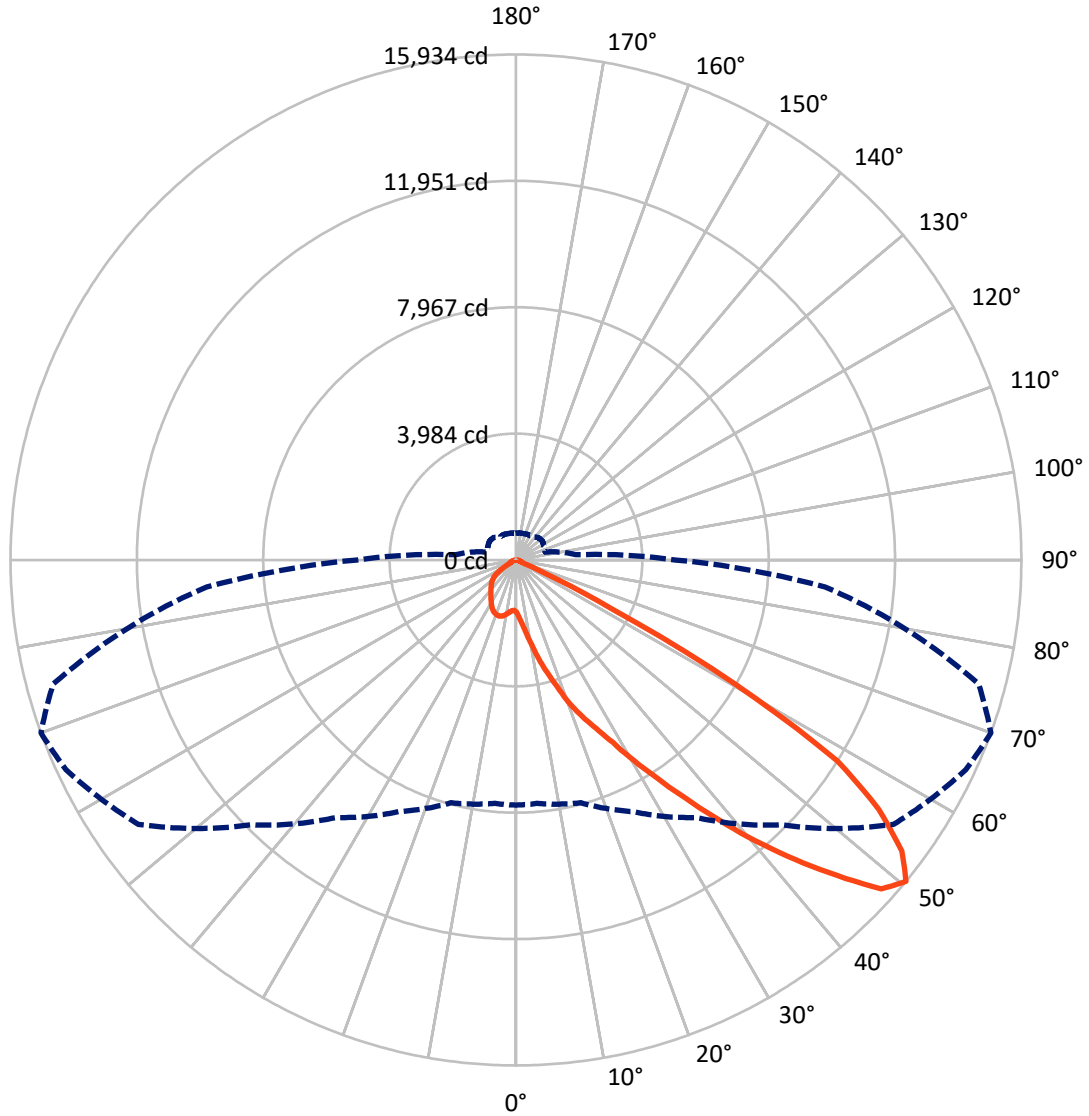
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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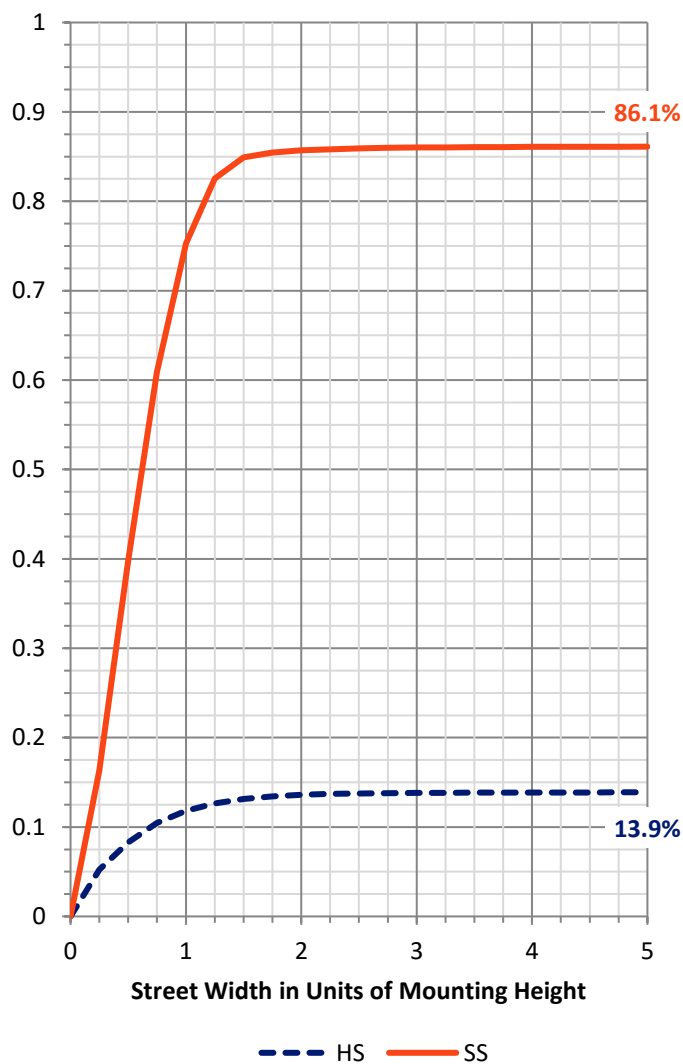
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2201.1	0.0	2201.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13559.9	0.0	13559.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	15761.0	0.0	15761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.3
10°-20°	918.3	5.8
20°-30°	1926.4	12.2
30°-40°	3320.5	21.1
40°-50°	4852.8	30.8
50°-60°	3779.6	24.0
60°-70°	640.4	4.1
70°-80°	88.0	0.6
80°-90°	22.8	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°	15761.0	100.0
0°-180°	15761.0	100.0

Coefficient of Utilization



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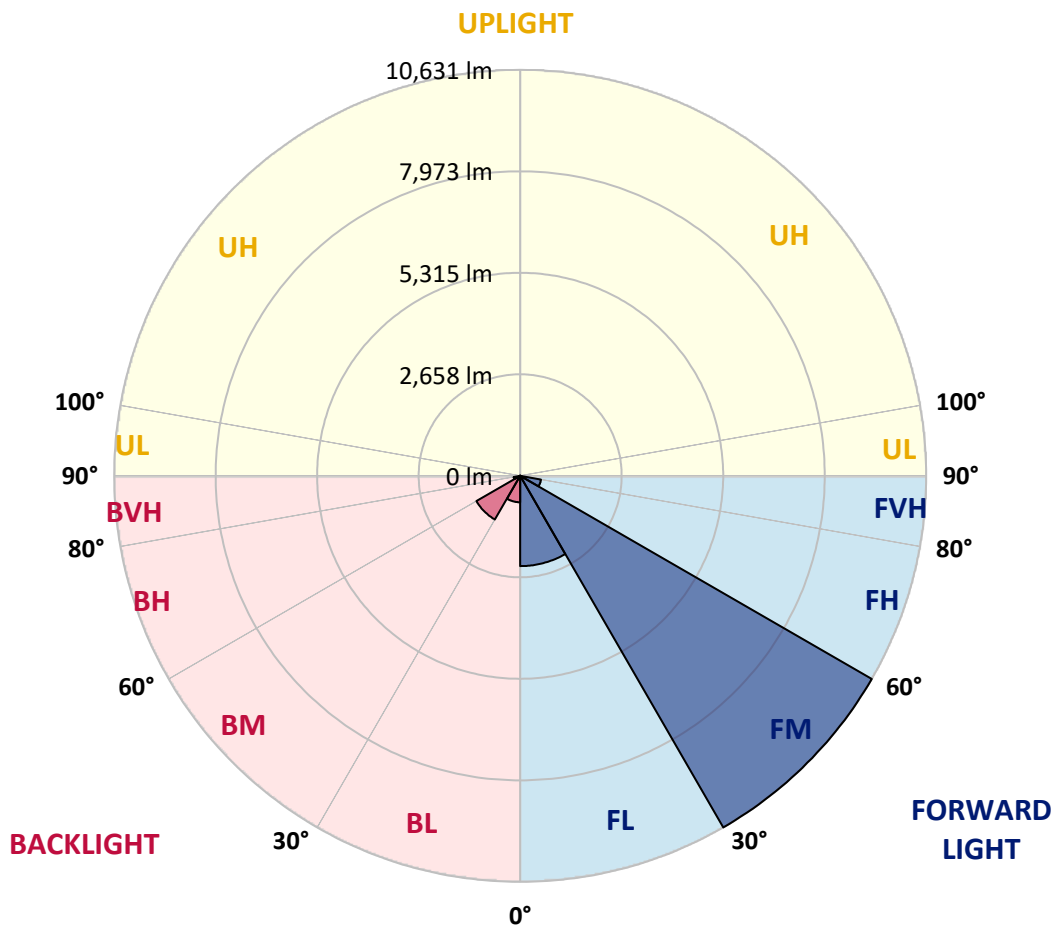
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2364.3	15.0			
FM (30°-60°)	10630.5	67.4			
FH (60°-80°)	554.5	3.5			G0/660
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	692.6	4.4	B2/1000		
BM (30°-60°)	1322.4	8.4	B2/2500		
BH (60°-80°)	173.9	1.1	B1/500		G1/500
BVH (80°-90°)	12.3	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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	2137.8	2122.3	2088.6	2026.4	2000.5	1938.3	1902.0	1832.1	1788.0	1738.8	1684.4
5°	3011.1	2930.8	2881.5	2811.6	2606.9	2479.9	2270.0	2091.2	2008.3	1917.6	1793.2
7.5°	3912.9	3861.1	3793.7	3643.4	3503.5	3239.1	2879.0	2485.1	2316.6	2161.2	1915.0
10°	4659.2	4514.1	4506.3	4394.9	4242.0	3925.8	3493.1	3003.3	2702.7	2474.7	2088.6
12.5°	5180.0	5047.9	5107.5	5094.5	4952.0	4661.8	4161.7	3513.8	3200.3	2845.3	2267.4
15°	5654.3	5599.8	5581.7	5566.1	5509.1	5294.1	4845.8	4135.7	3682.3	3254.7	2469.5
17.5°	6118.1	5978.2	6045.5	6058.5	6053.3	5859.0	5439.2	4726.6	4192.7	3687.4	2682.0
20°	6530.1	6543.1	6452.4	6434.2	6418.7	6410.9	6001.5	5312.2	4819.8	4140.9	2959.3
22.5°	7058.7	6968.0	7048.4	6996.6	6895.5	6833.3	6519.8	5830.5	5364.0	4687.7	3241.7
25°	7683.3	7755.8	7566.6	7545.9	7434.5	7219.4	6937.0	6410.9	5887.5	5195.6	3547.5
27.5°	8452.9	8325.9	8276.7	8162.6	7960.5	7869.8	7538.1	7009.5	6519.8	5729.4	3842.9
30°	9113.7	9080.0	8833.8	8699.0	8522.8	8520.2	8056.4	7820.6	7343.8	6566.4	4249.8
32.5°	9652.7	9504.9	9414.3	9321.0	9178.4	9217.3	8826.0	8701.6	8222.2	7343.8	4729.2
35°	10012.8	9906.6	9852.2	9709.7	9668.2	9841.8	9678.6	9626.7	9232.9	8437.3	5291.5
37.5°	10126.9	10160.6	10150.2	9971.4	10059.5	10528.5	10738.4	10603.7	10396.4	9590.5	5900.4
40°	10227.9	10251.2	10199.4	10409.3	10660.7	11194.5	11953.7	11730.9	11653.1	10759.1	6747.8
42.5°	10284.9	10266.8	10266.8	10629.6	11010.5	12083.3	13127.6	12979.9	12920.3	12003.0	7727.3
45°	10038.8	9862.5	10051.7	10544.1	11311.1	12521.2	14065.7	14270.4	14184.9	13482.6	8872.7
47.5°	9118.8	9227.7	9333.9	9992.1	10945.7	12386.5	14640.9	15338.0	15496.1	14726.5	9624.1
50°	7727.3	7704.0	7924.2	8753.5	9911.8	11806.0	14529.5	15646.4	15934.0	15099.6	9782.2
52.5°	5620.6	5791.6	6030.0	6854.0	8227.4	10303.1	13091.3	14850.8	15234.3	14640.9	9678.6
55°	3272.8	3083.7	3620.1	4317.1	5612.8	7771.4	11067.5	13163.9	13873.9	13806.5	9155.1
57.5°	1311.2	1269.7	1453.7	1959.0	2928.2	4817.3	8048.6	10816.2	11953.7	12645.6	8046.0
60°	575.3	562.3	660.8	798.1	1197.2	2220.8	4402.6	6727.1	7913.9	8836.4	5537.6
62.5°	414.6	409.4	458.7	507.9	632.3	966.6	1850.2	2710.5	3379.1	4081.3	2479.9
65°	334.3	347.2	380.9	406.8	466.4	536.4	653.0	754.1	925.1	958.8	546.8
67.5°	272.1	282.5	313.5	342.1	352.4	290.2	300.6	264.3	264.3	235.8	189.2
70°	199.5	202.1	238.4	272.1	217.7	116.6	204.7	204.7	184.0	176.2	160.7
72.5°	147.7	150.3	178.8	168.4	85.5	72.6	150.3	165.8	150.3	142.5	129.6
75°	108.8	111.4	93.3	38.9	36.3	46.6	88.1	114.0	108.8	106.2	98.5
77.5°	20.7	15.5	13.0	18.1	25.9	38.9	57.0	70.0	72.6	77.7	72.6
80°	2.6	2.6	7.8	15.5	28.5	41.5	59.6	67.4	70.0	72.6	67.4
82.5°	0.0	2.6	7.8	15.5	28.5	38.9	51.8	59.6	64.8	67.4	64.8
85°	0.0	2.6	5.2	13.0	23.3	28.5	25.9	18.1	15.5	18.1	13.0
87.5°	0.0	0.0	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1653.3	1642.9	1606.6	1567.7	1534.1	1549.6	1534.1	1521.1	1526.3	1521.1	1515.9
5°	1744.0	1697.3	1619.6	1585.9	1557.4	1554.8	1547.0	1544.4	1547.0	1547.0	1523.7
7.5°	1829.5	1754.3	1671.4	1635.1	1601.4	1604.0	1585.9	1585.9	1583.3	1570.3	1565.2
10°	1959.0	1858.0	1751.7	1686.9	1645.5	1637.7	1619.6	1601.4	1601.4	1601.4	1575.5
12.5°	2101.6	1974.6	1829.5	1754.3	1705.1	1666.2	1637.7	1632.5	1604.0	1598.8	1585.9
15°	2225.9	2065.3	1881.3	1777.6	1715.5	1663.6	1619.6	1591.1	1578.1	1570.3	1560.0
17.5°	2347.7	2143.0	1909.8	1777.6	1710.3	1650.7	1604.0	1578.1	1547.0	1552.2	1531.5
20°	2511.0	2225.9	1917.6	1744.0	1661.0	1604.0	1541.8	1528.9	1510.7	1495.2	1500.4
22.5°	2669.1	2285.5	1894.3	1702.5	1583.3	1515.9	1484.8	1469.3	1461.5	1448.5	1430.4
25°	2811.6	2350.3	1858.0	1627.3	1500.4	1451.1	1422.6	1420.0	1401.9	1401.9	1368.2
27.5°	2956.7	2373.6	1795.8	1539.2	1427.8	1399.3	1386.4	1381.2	1373.4	1355.3	1331.9
30°	3122.5	2381.4	1705.1	1448.5	1363.0	1331.9	1350.1	1363.0	1329.3	1295.7	1306.0
32.5°	3259.9	2363.3	1596.3	1363.0	1316.4	1300.8	1337.1	1350.1	1311.2	1274.9	1256.8
35°	3425.7	2319.2	1490.0	1295.7	1269.7	1300.8	1331.9	1331.9	1254.2	1210.1	1199.8
37.5°	3677.1	2270.0	1391.5	1238.6	1220.5	1285.3	1326.8	1298.2	1176.5	1122.0	1109.1
40°	3946.6	2238.9	1295.7	1181.6	1194.6	1259.4	1282.7	1194.6	1070.2	1036.5	1026.2
42.5°	4337.9	2176.7	1210.1	1132.4	1171.3	1223.1	1223.1	1065.0	1018.4	1000.2	997.7
45°	4825.0	2132.7	1135.0	1090.9	1137.6	1150.5	1109.1	997.7	964.0	958.8	961.4
47.5°	5063.4	2047.1	1057.3	1041.7	1075.4	1078.0	969.2	943.2	914.7	907.0	901.8
50°	5027.2	1894.3	956.2	976.9	1023.6	997.7	883.6	888.8	862.9	860.3	847.4
52.5°	4773.2	1653.3	855.1	904.4	956.2	881.0	813.7	808.5	808.5	774.8	761.8
55°	4231.6	1331.9	733.3	795.5	857.7	741.1	723.0	717.8	704.8	673.7	666.0
57.5°	3350.6	976.9	552.0	619.3	728.2	629.7	627.1	603.8	570.1	546.8	546.8
60°	1992.7	562.3	347.2	378.3	482.0	510.5	567.5	557.1	500.1	463.8	453.5
62.5°	909.6	290.2	220.3	225.4	259.1	331.7	445.7	515.7	435.3	373.1	368.0
65°	305.8	215.1	181.4	173.6	178.8	199.5	266.9	365.4	347.2	287.6	277.3
67.5°	186.6	191.8	171.0	158.1	158.1	155.5	152.9	165.8	204.7	199.5	202.1
70°	160.7	176.2	158.1	142.5	137.3	129.6	108.8	90.7	77.7	90.7	95.9
72.5°	129.6	139.9	134.7	121.8	108.8	98.5	77.7	59.6	44.1	38.9	38.9
75°	95.9	103.7	108.8	93.3	82.9	70.0	57.0	38.9	23.3	15.5	15.5
77.5°	70.0	77.7	80.3	72.6	62.2	49.2	36.3	25.9	13.0	5.2	5.2
80°	59.6	70.0	77.7	72.6	64.8	46.6	33.7	18.1	10.4	2.6	2.6
82.5°	57.0	70.0	77.7	70.0	62.2	44.1	33.7	20.7	7.8	2.6	2.6
85°	13.0	18.1	23.3	28.5	33.7	33.7	25.9	15.5	7.8	2.6	2.6
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	2.6	2.6	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)