

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: P530737

Luminaire Tested: **GALN-SA6A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530737
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-SA6A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 14999 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

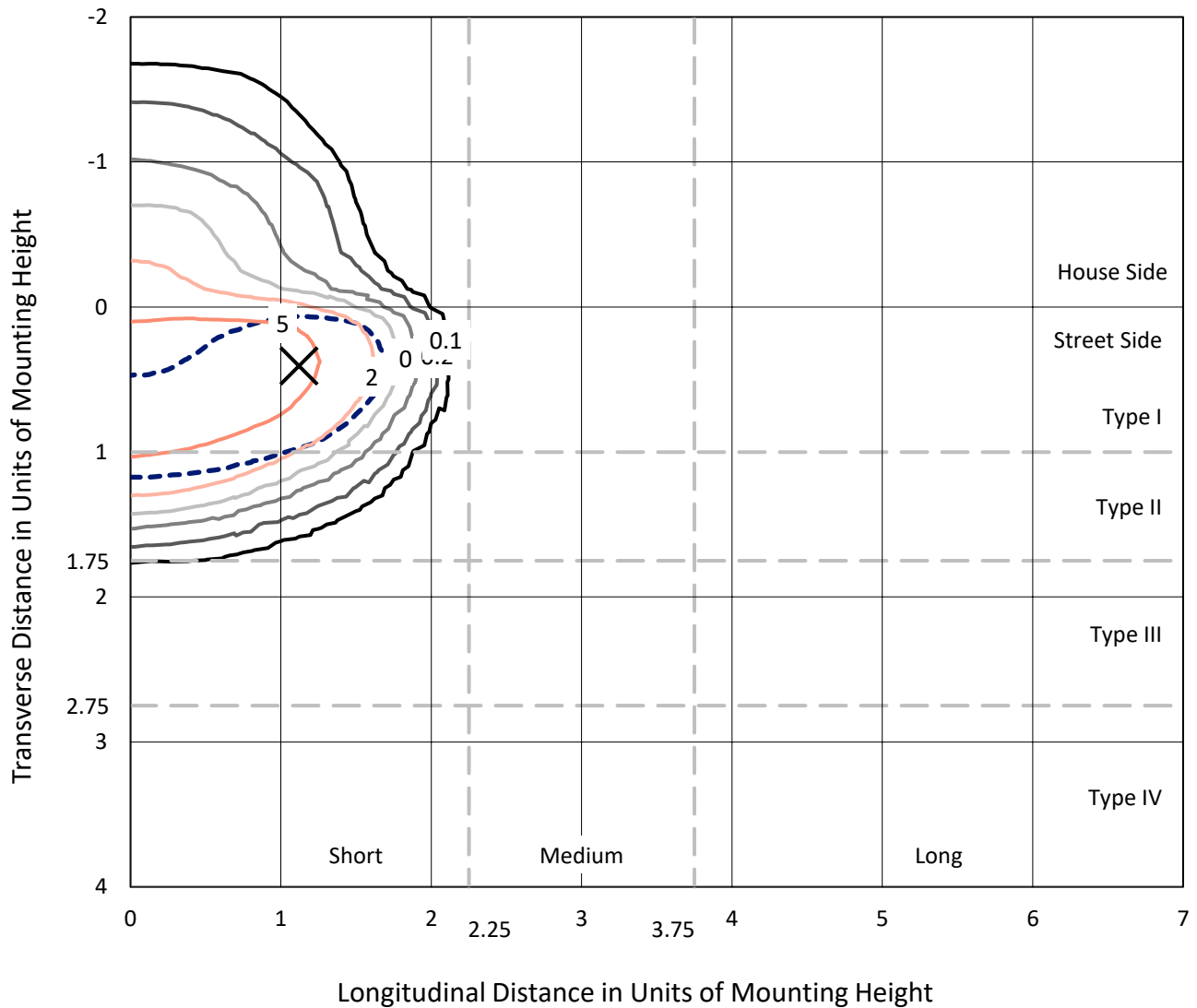
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

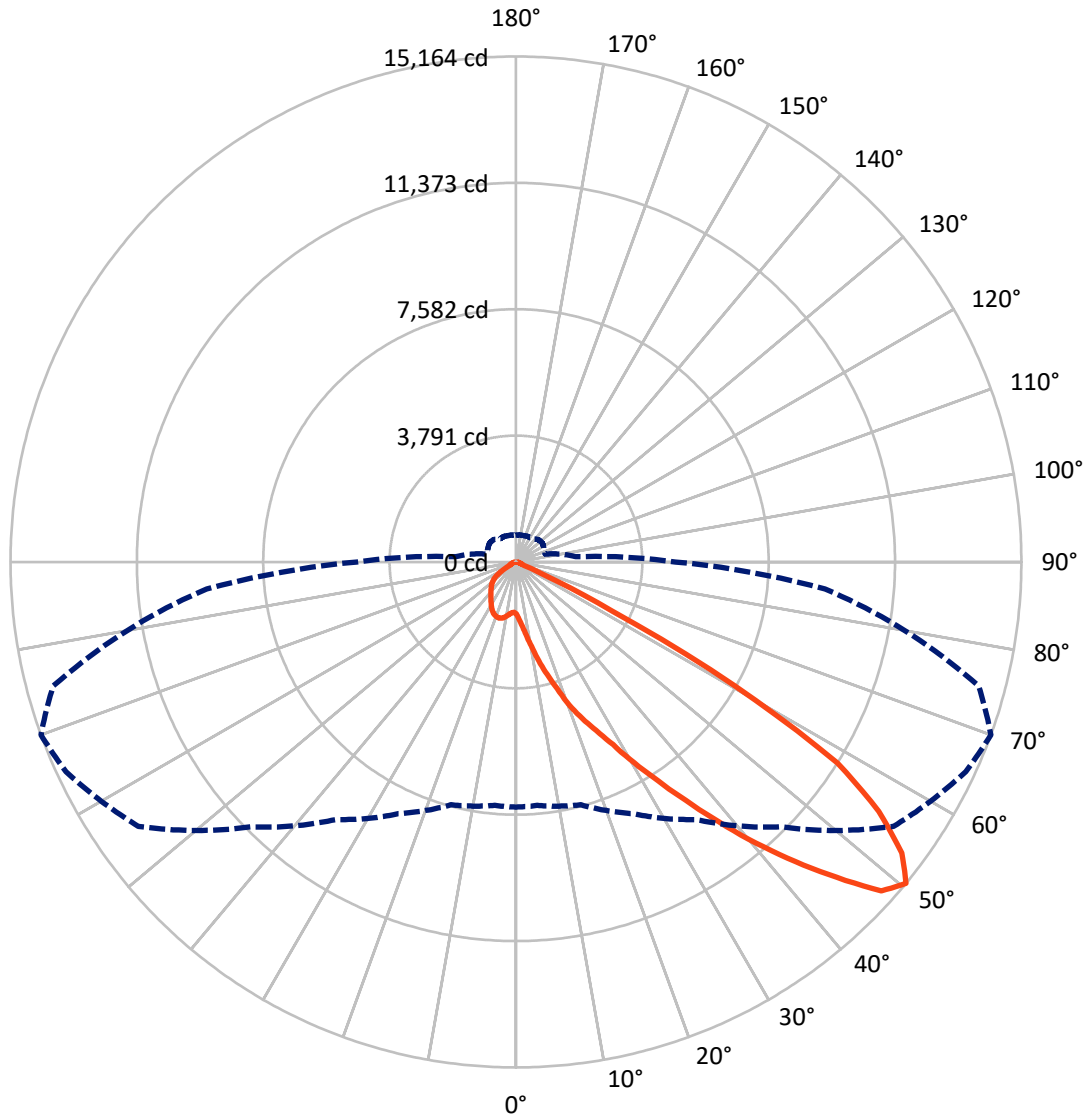
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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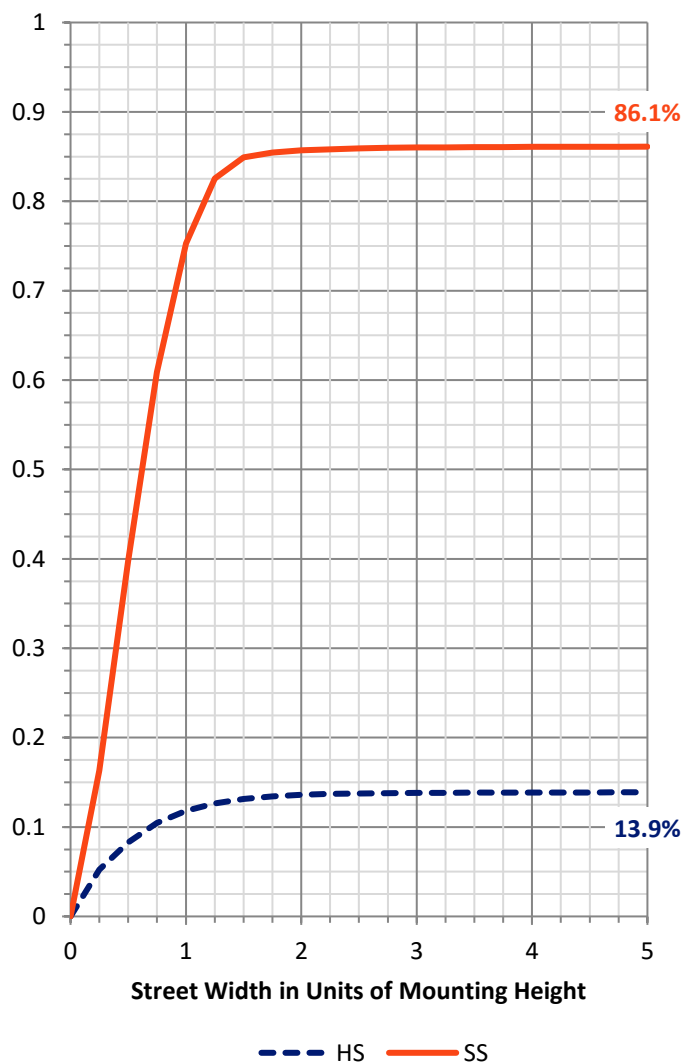
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.7	0.0	2094.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12904.3	0.0	12904.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	14999.0	0.0	14999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	1.3
10°-20°	873.9	5.8
20°-30°	1833.3	12.2
30°-40°	3159.9	21.1
40°-50°	4618.2	30.8
50°-60°	3596.8	24.0
60°-70°	609.4	4.1
70°-80°	83.7	0.6
80°-90°	21.7	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°	14999.0	100.0
0°-180°	14999.0	100.0

Coefficient of Utilization



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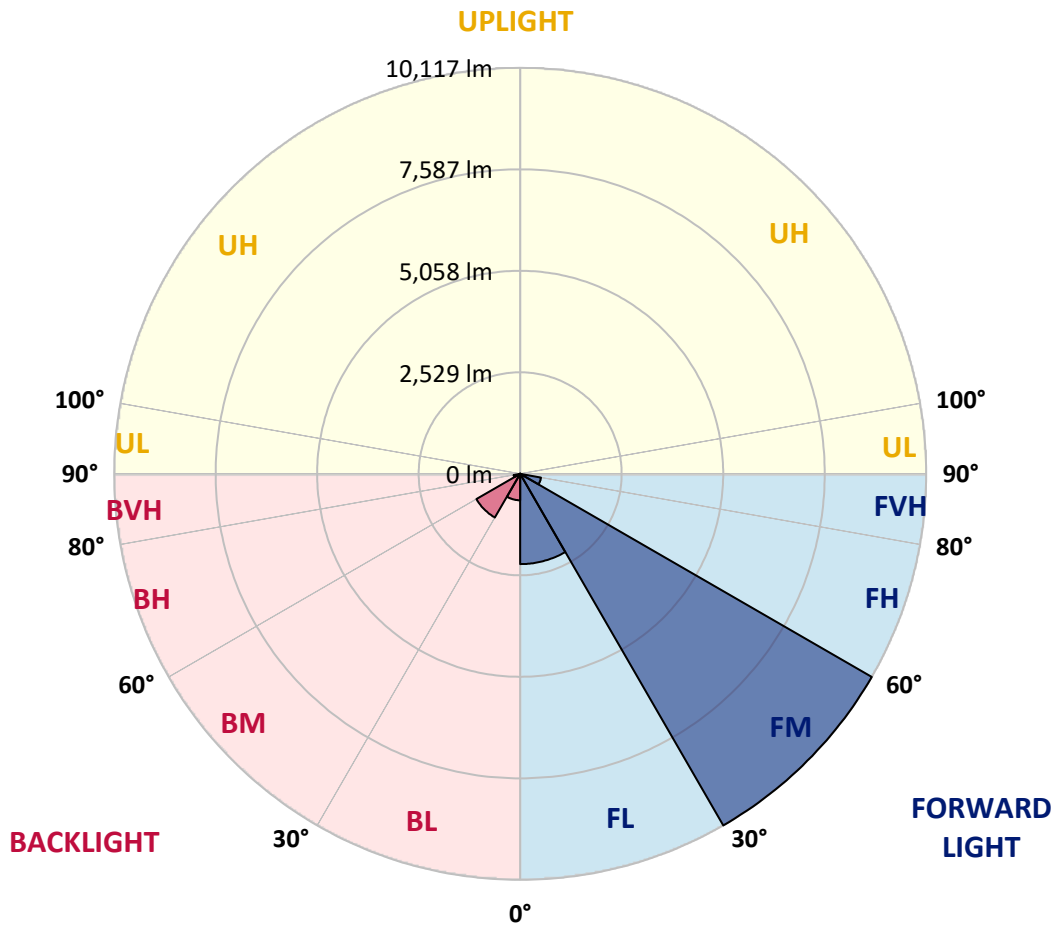
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.0	15.0			
FM (30°-60°)	10116.6	67.4			
FH (60°-80°)	527.7	3.5			G0/660
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	659.2	4.4	B2/1000		
BM (30°-60°)	1258.4	8.4	B2/2500		
BH (60°-80°)	165.5	1.1	B1/500		G1/500
BVH (80°-90°)	11.7	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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	2034.5	2019.7	1987.6	1928.4	1903.8	1844.6	1810.1	1743.5	1701.6	1654.7	1602.9
5°	2865.5	2789.1	2742.2	2675.6	2480.8	2360.0	2160.2	1990.1	1911.2	1824.9	1706.5
7.5°	3723.7	3674.4	3610.3	3467.2	3334.1	3082.5	2739.8	2364.9	2204.6	2056.7	1822.4
10°	4433.9	4295.8	4288.4	4182.4	4036.9	3736.0	3324.2	2858.1	2572.1	2355.1	1987.6
12.5°	4929.6	4803.8	4860.6	4848.2	4712.6	4436.4	3960.4	3343.9	3045.6	2707.7	2157.8
15°	5380.9	5329.1	5311.8	5297.0	5242.8	5038.1	4611.5	3935.8	3504.2	3097.3	2350.1
17.5°	5822.3	5689.1	5753.3	5765.6	5760.7	5575.7	5176.2	4498.0	3990.0	3509.2	2552.3
20°	6214.4	6226.7	6140.4	6123.2	6108.4	6101.0	5711.3	5055.4	4586.8	3940.7	2816.2
22.5°	6717.5	6631.2	6707.6	6658.3	6562.1	6502.9	6204.5	5548.6	5104.7	4461.1	3085.0
25°	7311.8	7380.8	7200.8	7181.1	7075.0	6870.4	6601.6	6101.0	5602.8	4944.4	3376.0
27.5°	8044.2	7923.4	7876.5	7768.0	7575.7	7489.3	7173.7	6670.6	6204.5	5452.4	3657.1
30°	8673.0	8641.0	8406.7	8278.5	8110.8	8108.3	7666.9	7442.5	6988.7	6248.9	4044.3
32.5°	9186.0	9045.4	8959.1	8870.3	8734.7	8771.7	8399.3	8280.9	7824.7	6988.7	4500.5
35°	9528.8	9427.6	9375.9	9240.2	9200.8	9366.0	9210.6	9161.3	8786.5	8029.4	5035.6
37.5°	9637.3	9669.3	9659.5	9489.3	9573.1	10019.5	10219.2	10091.0	9893.7	9126.8	5615.2
40°	9733.4	9755.6	9706.3	9906.1	10145.3	10653.3	11375.8	11163.7	11089.8	10239.0	6421.6
42.5°	9787.7	9770.4	9770.4	10115.7	10478.2	11499.1	12492.9	12352.4	12295.6	11422.7	7353.7
45°	9553.4	9385.7	9565.7	10034.3	10764.2	11915.9	13385.6	13580.4	13499.1	12830.8	8443.7
47.5°	8678.0	8781.5	8882.7	9509.0	10416.5	11787.6	13933.1	14596.5	14746.9	14014.5	9158.8
50°	7353.7	7331.5	7541.1	8330.3	9432.6	11235.2	13827.0	14889.9	15163.6	14369.6	9309.3
52.5°	5348.8	5511.6	5738.5	6522.7	7829.7	9804.9	12458.4	14132.8	14497.8	13933.1	9210.6
55°	3114.6	2934.6	3445.0	4108.4	5341.4	7395.6	10532.4	12527.4	13203.1	13139.0	8712.5
57.5°	1247.8	1208.4	1383.4	1864.3	2786.6	4584.4	7659.5	10293.2	11375.8	12034.2	7657.0
60°	547.5	535.1	628.8	759.5	1139.3	2113.4	4189.8	6401.8	7531.3	8409.2	5269.9
62.5°	394.6	389.6	436.5	483.3	601.7	919.8	1760.7	2579.5	3215.7	3884.0	2360.0
65°	318.1	330.4	362.5	387.2	443.9	510.5	621.4	717.6	880.4	912.4	520.3
67.5°	258.9	268.8	298.4	325.5	335.4	276.2	286.1	251.5	251.5	224.4	180.0
70°	189.9	192.4	226.9	258.9	207.1	111.0	194.8	194.8	175.1	167.7	152.9
72.5°	140.6	143.0	170.2	160.3	81.4	69.0	143.0	157.8	143.0	135.6	123.3
75°	103.6	106.0	88.8	37.0	34.5	44.4	83.8	108.5	103.6	101.1	93.7
77.5°	19.7	14.8	12.3	17.3	24.7	37.0	54.3	66.6	69.0	74.0	69.0
80°	2.5	2.5	7.4	14.8	27.1	39.5	56.7	64.1	66.6	69.0	64.1
82.5°	0.0	2.5	7.4	14.8	27.1	37.0	49.3	56.7	61.7	64.1	61.7
85°	0.0	2.5	4.9	12.3	22.2	27.1	24.7	17.3	14.8	17.3	12.3
87.5°	0.0	0.0	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1573.3	1563.5	1528.9	1492.0	1459.9	1474.7	1459.9	1447.6	1452.5	1447.6	1442.6
5°	1659.6	1615.3	1541.3	1509.2	1482.1	1479.6	1472.2	1469.8	1472.2	1472.2	1450.0
7.5°	1741.0	1669.5	1590.6	1556.1	1524.0	1526.5	1509.2	1509.2	1506.7	1494.4	1489.5
10°	1864.3	1768.1	1667.0	1605.4	1565.9	1558.5	1541.3	1524.0	1524.0	1524.0	1499.3
12.5°	2000.0	1879.1	1741.0	1669.5	1622.6	1585.7	1558.5	1553.6	1526.5	1521.5	1509.2
15°	2118.3	1965.4	1790.3	1691.7	1632.5	1583.2	1541.3	1514.1	1501.8	1494.4	1484.6
17.5°	2234.2	2039.4	1817.5	1691.7	1627.6	1570.9	1526.5	1501.8	1472.2	1477.2	1457.4
20°	2389.6	2118.3	1824.9	1659.6	1580.7	1526.5	1467.3	1455.0	1437.7	1422.9	1427.8
22.5°	2540.0	2175.0	1802.7	1620.2	1506.7	1442.6	1413.0	1398.2	1390.8	1378.5	1361.3
25°	2675.6	2236.7	1768.1	1548.7	1427.8	1381.0	1353.9	1351.4	1334.1	1334.1	1302.1
27.5°	2813.7	2258.9	1709.0	1464.8	1358.8	1331.7	1319.3	1314.4	1307.0	1289.7	1267.5
30°	2971.6	2266.3	1622.6	1378.5	1297.1	1267.5	1284.8	1297.1	1265.1	1233.0	1242.9
32.5°	3102.3	2249.0	1519.1	1297.1	1252.7	1237.9	1272.5	1284.8	1247.8	1213.3	1196.0
35°	3260.1	2207.1	1418.0	1233.0	1208.4	1237.9	1267.5	1267.5	1193.6	1151.6	1141.8
37.5°	3499.3	2160.2	1324.3	1178.8	1161.5	1223.2	1262.6	1235.5	1119.6	1067.8	1055.5
40°	3755.8	2130.7	1233.0	1124.5	1136.8	1198.5	1220.7	1136.8	1018.5	986.4	976.5
42.5°	4128.1	2071.5	1151.6	1077.7	1114.6	1164.0	1164.0	1013.5	969.2	951.9	949.4
45°	4591.8	2029.5	1080.1	1038.2	1082.6	1094.9	1055.5	949.4	917.4	912.4	914.9
47.5°	4818.6	1948.2	1006.1	991.3	1023.4	1025.9	922.3	897.6	870.5	863.1	858.2
50°	4784.1	1802.7	910.0	929.7	974.1	949.4	840.9	845.8	821.2	818.7	806.4
52.5°	4542.4	1573.3	813.8	860.6	910.0	838.5	774.3	769.4	769.4	737.3	725.0
55°	4027.0	1267.5	697.9	757.1	816.3	705.3	688.0	683.1	670.8	641.2	633.8
57.5°	3188.6	929.7	525.3	589.4	693.0	599.2	596.8	574.6	542.5	520.3	520.3
60°	1896.4	535.1	330.4	360.0	458.7	485.8	540.1	530.2	475.9	441.4	431.6
62.5°	865.6	276.2	209.6	214.5	246.6	315.7	424.2	490.7	414.3	355.1	350.2
65°	291.0	204.7	172.6	165.2	170.2	189.9	254.0	347.7	330.4	273.7	263.9
67.5°	177.6	182.5	162.8	150.4	150.4	148.0	145.5	157.8	194.8	189.9	192.4
70°	152.9	167.7	150.4	135.6	130.7	123.3	103.6	86.3	74.0	86.3	91.2
72.5°	123.3	133.2	128.2	115.9	103.6	93.7	74.0	56.7	41.9	37.0	37.0
75°	91.2	98.6	103.6	88.8	78.9	66.6	54.3	37.0	22.2	14.8	14.8
77.5°	66.6	74.0	76.4	69.0	59.2	46.9	34.5	24.7	12.3	4.9	4.9
80°	56.7	66.6	74.0	69.0	61.7	44.4	32.1	17.3	9.9	2.5	2.5
82.5°	54.3	66.6	74.0	66.6	59.2	41.9	32.1	19.7	7.4	2.5	2.5
85°	12.3	17.3	22.2	27.1	32.1	32.1	24.7	14.8	7.4	2.5	2.5
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	2.5	2.5	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)