

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: P651256

Luminaire Tested: **GALN-SA2D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7812.9 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

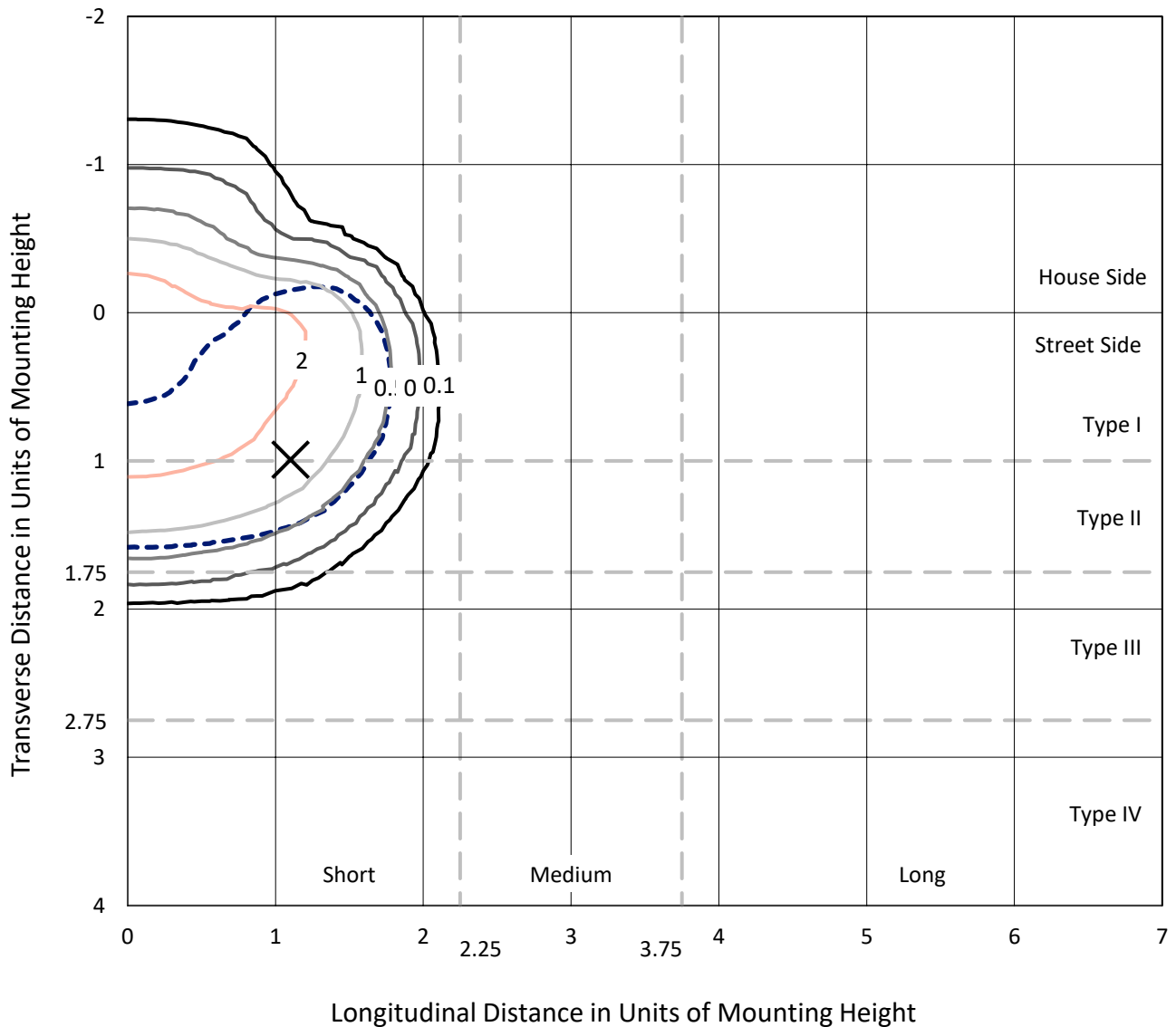
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

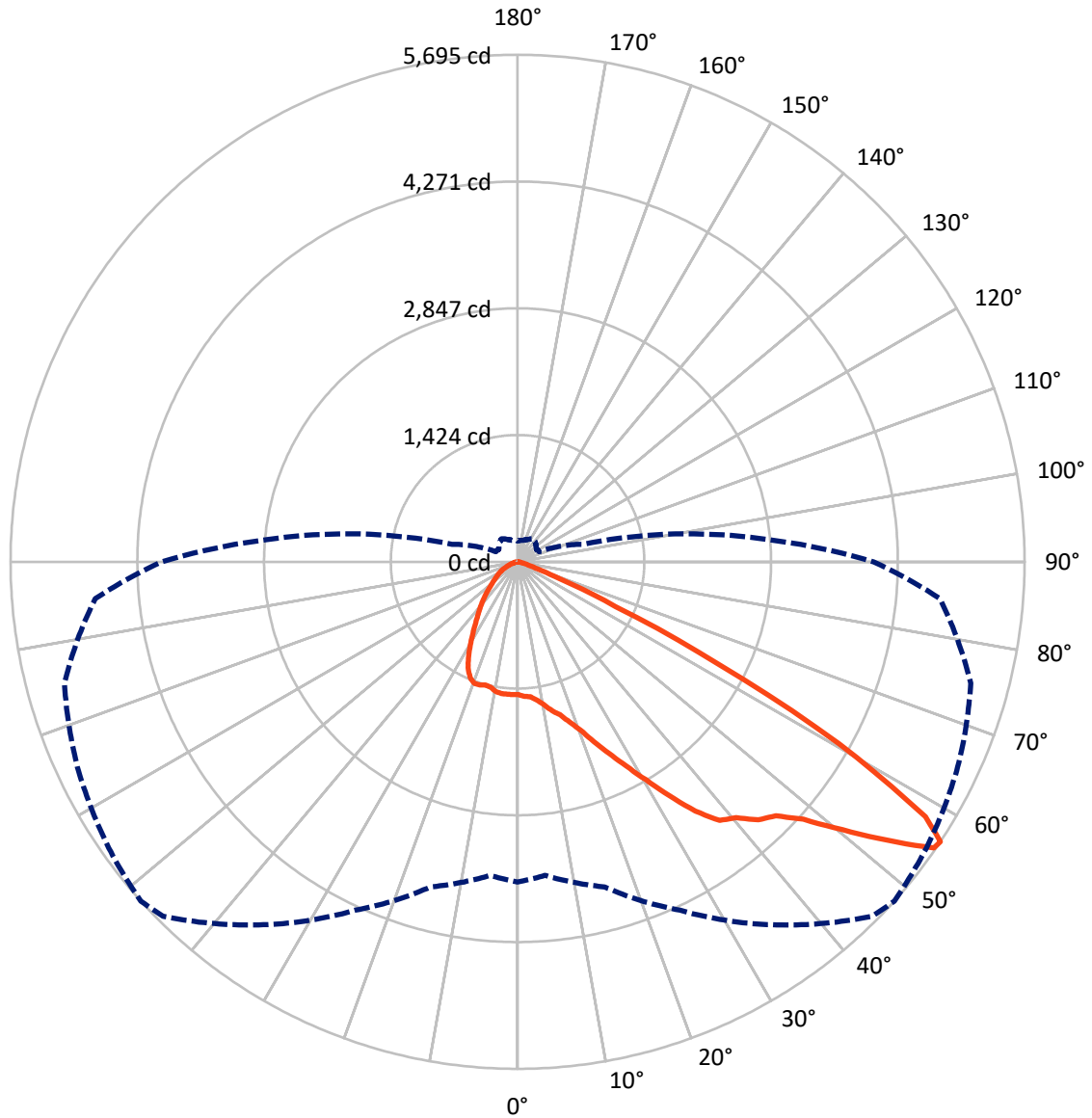
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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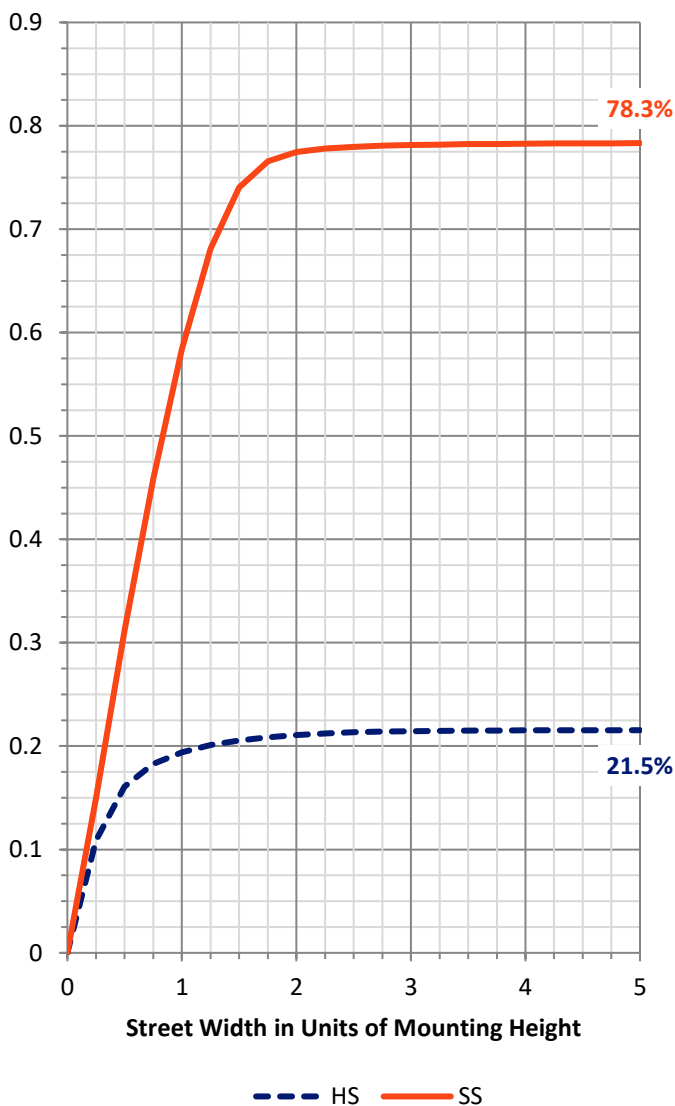
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1699.2	0.0	1699.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	6113.7	0.0	6113.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	7812.9	0.0	7812.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	1.9
10°-20°	464.6	5.9
20°-30°	842.6	10.8
30°-40°	1323.6	16.9
40°-50°	1930.8	24.7
50°-60°	2326.3	29.8
60°-70°	681.1	8.7
70°-80°	86.4	1.1
80°-90°	12.1	0.2
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°	7812.9	100.0
0°-180°	7812.9	100.0

**Coefficient of Utilization**

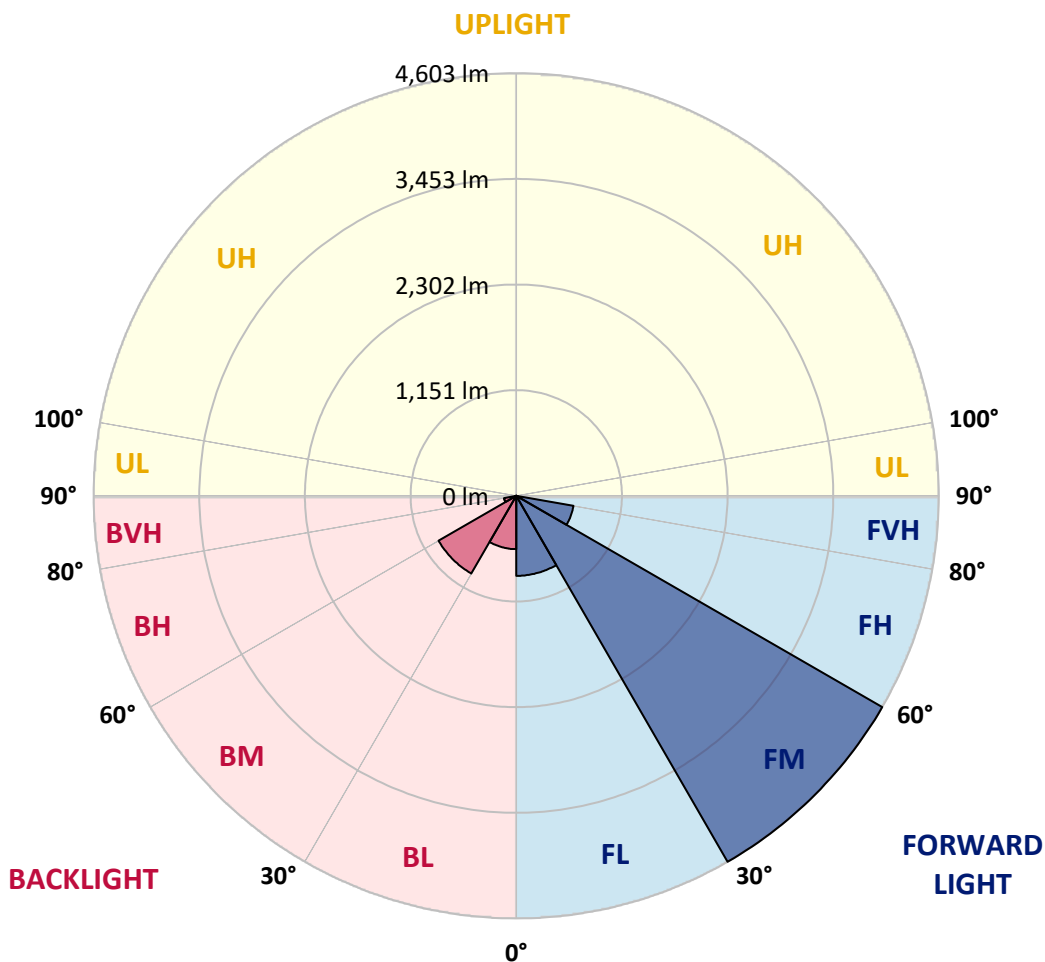


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.8	11.2			
FM (30°-60°)	4603.4	58.9			
FH (60°-80°)	632.5	8.1			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	580.8	7.4	B2/1000		
BM (30°-60°)	977.3	12.5	B1/1000		
BH (60°-80°)	135.0	1.7	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3
2.5°	1519.3	1512.2	1512.2	1500.8	1513.6	1507.9	1512.2	1498.0	1512.2	1490.8	1507.9
5°	1526.4	1527.8	1522.1	1529.3	1529.3	1537.8	1523.6	1536.3	1543.5	1527.8	1520.7
7.5°	1563.4	1566.3	1564.8	1559.1	1570.5	1569.1	1567.6	1557.7	1560.6	1554.8	1546.3
10°	1635.9	1634.5	1641.6	1627.4	1618.8	1628.8	1631.7	1616.1	1604.6	1600.3	1573.3
12.5°	1741.2	1724.1	1714.2	1700.0	1704.2	1690.0	1715.6	1688.6	1682.9	1657.3	1630.3
15°	1826.6	1823.7	1825.1	1802.3	1776.8	1782.5	1782.5	1768.2	1759.7	1728.4	1690.0
17.5°	2001.6	1941.8	1954.6	1926.1	1904.8	1903.4	1890.6	1893.4	1870.6	1805.2	1746.9
20°	2138.1	2112.5	2092.6	2044.2	2011.5	2021.4	2015.8	2001.6	1994.4	1909.1	1826.6
22.5°	2260.4	2269.0	2236.3	2223.4	2177.9	2182.2	2193.6	2180.8	2126.7	2038.5	1916.2
25°	2432.6	2422.6	2378.5	2362.9	2320.2	2335.9	2379.9	2370.0	2335.9	2176.5	1985.9
27.5°	2636.0	2601.9	2610.4	2539.2	2498.0	2542.1	2594.7	2644.5	2547.8	2338.7	2068.4
30°	2779.7	2744.1	2741.2	2738.5	2728.5	2779.7	2840.8	2886.4	2808.1	2500.9	2204.9
32.5°	2850.8	2859.3	2883.5	2875.0	2961.7	3067.0	3131.0	3196.5	3098.3	2765.5	2385.7
35°	3040.0	2986.0	3040.0	3045.7	3135.3	3358.7	3439.8	3596.2	3572.1	3139.6	2606.1
37.5°	3151.0	3146.7	3153.8	3207.9	3294.6	3570.6	3685.9	3806.8	3761.3	3364.3	2880.7
40°	3334.5	3345.8	3344.4	3385.7	3481.0	3729.9	3776.9	3875.1	3879.3	3675.9	3284.7
42.5°	3628.9	3583.4	3553.6	3596.2	3729.9	3867.9	3961.9	3941.9	4082.7	4054.3	3803.9
45°	3893.6	3920.6	3876.5	3947.6	3996.0	4069.9	4067.1	4109.8	4289.0	4424.2	4195.2
47.5°	4141.1	4158.2	4179.5	4227.9	4333.1	4344.5	4320.3	4301.8	4549.3	4688.7	4498.2
50°	4289.0	4304.7	4404.2	4491.0	4687.3	4713.0	4727.2	4680.2	4848.1	4863.8	4784.0
52.5°	4249.2	4266.2	4405.7	4691.6	5004.5	5239.3	5196.6	5117.0	5107.0	5168.2	5048.7
55°	3896.4	3880.7	4072.8	4518.0	5104.1	5667.5	5673.1	5589.2	5428.5	5387.2	5008.8
56°	3596.2	3535.1	3779.7	4317.4	4976.1	5630.5	5694.5	5604.8	5454.1	5269.2	4762.8
57.5°	2946.1	3004.5	3247.7	3693.0	4533.7	5364.5	5401.5	5380.1	5266.3	4956.2	4190.9
60°	1624.6	1727.0	1941.8	2486.7	3227.8	4116.9	4146.8	4320.3	4341.7	3795.3	2883.5
62.5°	690.0	678.6	901.9	1303.0	1837.9	2485.2	2540.7	2718.5	2751.2	2187.9	1446.8
65°	280.2	295.9	408.3	655.8	971.6	1132.3	1210.6	1268.9	1377.1	903.3	533.4
67.5°	184.9	183.5	240.4	374.2	523.5	505.0	505.0	533.4	493.7	368.4	230.4
70°	132.3	136.6	172.2	258.9	325.8	241.9	231.9	221.9	251.8	243.2	186.4
72.5°	86.8	92.4	115.2	155.1	169.3	132.3	132.3	159.3	207.7	196.3	152.2
75°	56.9	58.4	71.1	89.7	83.9	68.3	75.4	106.7	150.8	145.1	108.2
77.5°	38.4	39.9	48.4	58.4	46.9	38.4	41.3	54.1	74.0	74.0	56.9
80°	14.2	15.6	19.9	18.5	21.4	27.0	29.9	37.0	44.1	44.1	38.4
82.5°	0.0	1.4	4.3	9.9	15.6	21.4	24.2	28.4	32.7	37.0	35.6
85°	0.0	1.4	4.3	7.1	11.4	12.8	14.2	9.9	8.5	8.5	7.1
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.9	1.4	1.4
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°	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3	1492.3
2.5°	1492.3	1490.8	1490.8	1486.6	1495.1	1490.8	1493.7	1492.3	1473.8	1488.0	1478.1
5°	1507.9	1517.8	1502.2	1499.4	1488.0	1492.3	1492.3	1478.1	1490.8	1489.4	1486.6
7.5°	1547.8	1530.7	1513.6	1496.6	1493.7	1489.4	1473.8	1468.0	1478.1	1466.6	1483.7
10°	1564.8	1567.6	1542.1	1519.3	1498.0	1468.0	1446.8	1433.9	1418.3	1435.3	1445.3
12.5°	1643.1	1614.6	1570.5	1534.9	1462.4	1432.6	1411.2	1405.5	1432.6	1438.2	1428.3
15°	1670.1	1665.9	1608.9	1529.3	1453.8	1418.3	1422.6	1411.2	1414.1	1399.8	1402.6
17.5°	1725.6	1677.2	1610.3	1510.8	1452.4	1443.9	1418.3	1372.8	1347.2	1335.8	1345.8
20°	1786.7	1739.8	1643.1	1517.8	1465.3	1442.5	1358.6	1303.0	1250.4	1222.0	1223.4
22.5°	1840.8	1782.5	1628.8	1520.7	1476.6	1382.7	1281.8	1172.2	1106.8	1062.7	1064.0
25°	1906.2	1823.7	1634.5	1526.4	1446.8	1287.4	1142.3	1035.6	957.4	927.5	937.5
27.5°	1943.2	1849.4	1665.9	1539.2	1368.5	1152.3	995.8	896.3	850.7	836.5	835.0
30°	2054.1	1906.2	1704.2	1513.6	1237.6	1007.2	862.1	800.9	756.8	744.0	746.8
32.5°	2219.2	2010.1	1754.0	1446.8	1103.9	877.8	775.3	729.7	688.5	664.3	661.5
35°	2357.2	2187.9	1806.6	1342.9	948.8	778.2	714.1	657.2	594.7	567.6	560.5
37.5°	2620.4	2388.4	1795.3	1186.4	800.9	704.2	648.7	578.9	525.0	487.9	483.7
40°	2970.3	2623.2	1739.8	995.8	691.4	638.7	578.9	512.1	445.2	413.9	411.1
42.5°	3395.6	2910.5	1638.8	802.3	581.8	573.3	519.2	442.5	382.7	359.9	361.3
45°	3741.4	3156.7	1536.3	644.5	500.7	509.3	462.3	389.8	348.5	330.0	330.0
47.5°	4048.6	3323.1	1425.4	532.0	425.4	445.2	404.0	361.3	325.8	311.5	308.7
50°	4344.5	3492.4	1314.5	431.0	362.7	382.7	378.4	344.2	315.8	298.7	300.2
52.5°	4529.5	3519.4	1173.6	352.8	317.2	340.0	354.2	322.9	291.7	281.7	278.8
55°	4303.2	3170.9	910.5	290.2	268.9	298.7	325.8	290.2	266.0	248.9	247.5
56°	3998.8	2835.2	761.1	267.4	254.7	287.4	315.8	277.4	250.4	240.4	233.3
57.5°	3385.7	2320.2	561.9	237.6	236.2	267.4	300.2	264.6	233.3	224.8	224.8
60°	2111.1	1305.9	340.0	199.1	204.9	237.6	270.3	236.2	207.7	207.7	211.9
62.5°	961.7	543.5	206.3	169.3	176.4	204.9	240.4	213.4	197.7	213.4	216.2
65°	327.1	234.7	149.4	135.1	139.4	169.3	206.3	216.2	214.8	224.8	230.4
67.5°	183.5	150.8	125.2	112.4	109.5	125.2	169.3	216.2	207.7	203.4	206.3
70°	155.1	128.0	110.9	99.6	95.3	101.0	130.9	163.6	146.5	142.3	139.4
72.5°	125.2	106.7	96.7	89.7	76.8	65.4	59.7	62.6	69.7	74.0	81.1
75°	88.2	81.1	81.1	72.6	55.5	41.3	32.7	27.0	18.5	12.8	14.2
77.5°	49.8	49.8	51.2	44.1	35.6	27.0	19.9	14.2	7.1	2.9	1.4
80°	34.1	37.0	39.9	35.6	29.9	24.2	17.1	9.9	4.3	0.0	0.0
82.5°	34.1	38.4	41.3	35.6	29.9	22.8	17.1	9.9	4.3	1.4	0.0
85°	7.1	8.5	9.9	11.4	17.1	17.1	12.8	8.5	4.3	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	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)