

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: P647296

Luminaire Tested: **GALN-SA2D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647296  
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-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 7274.1 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

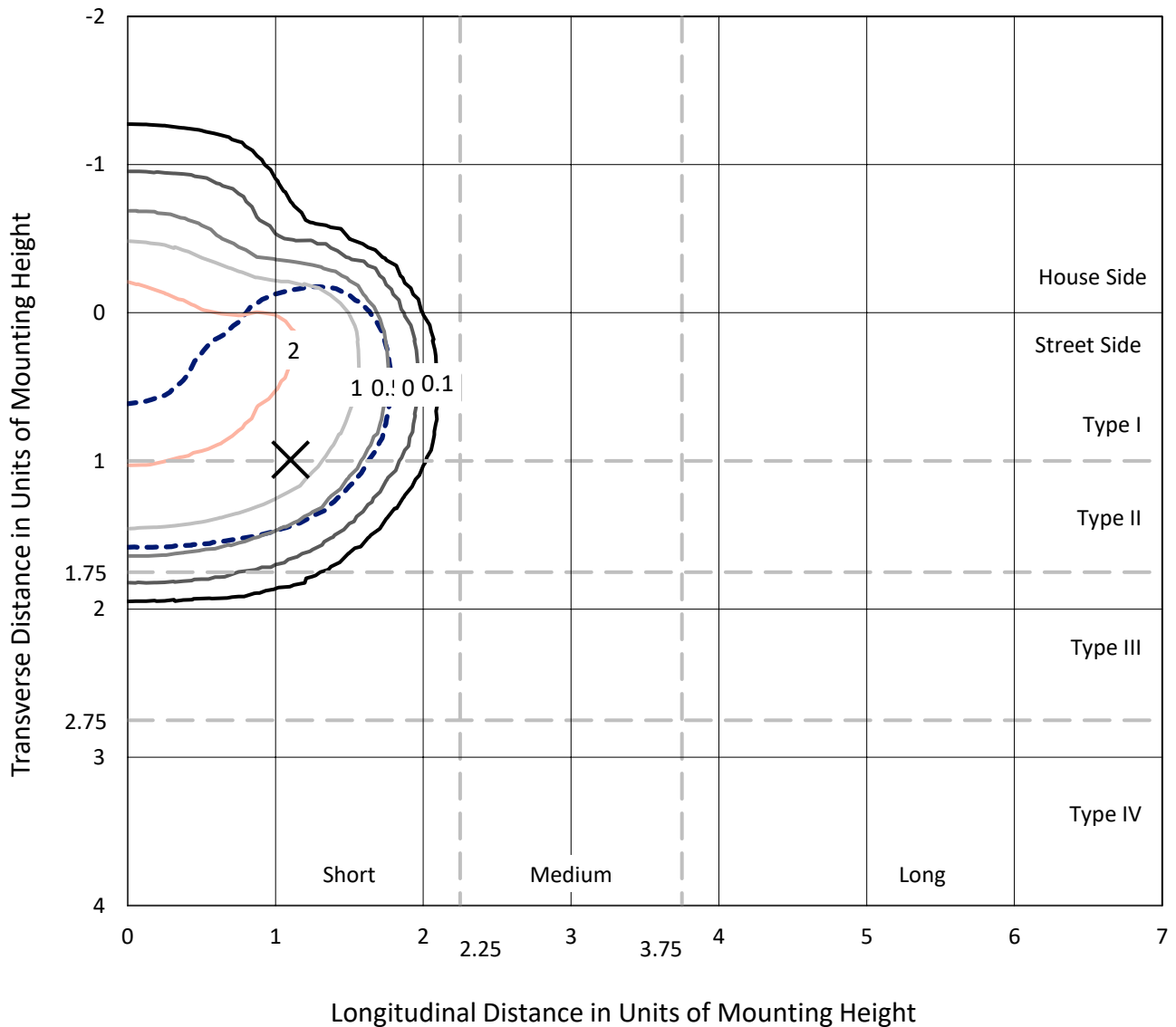
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

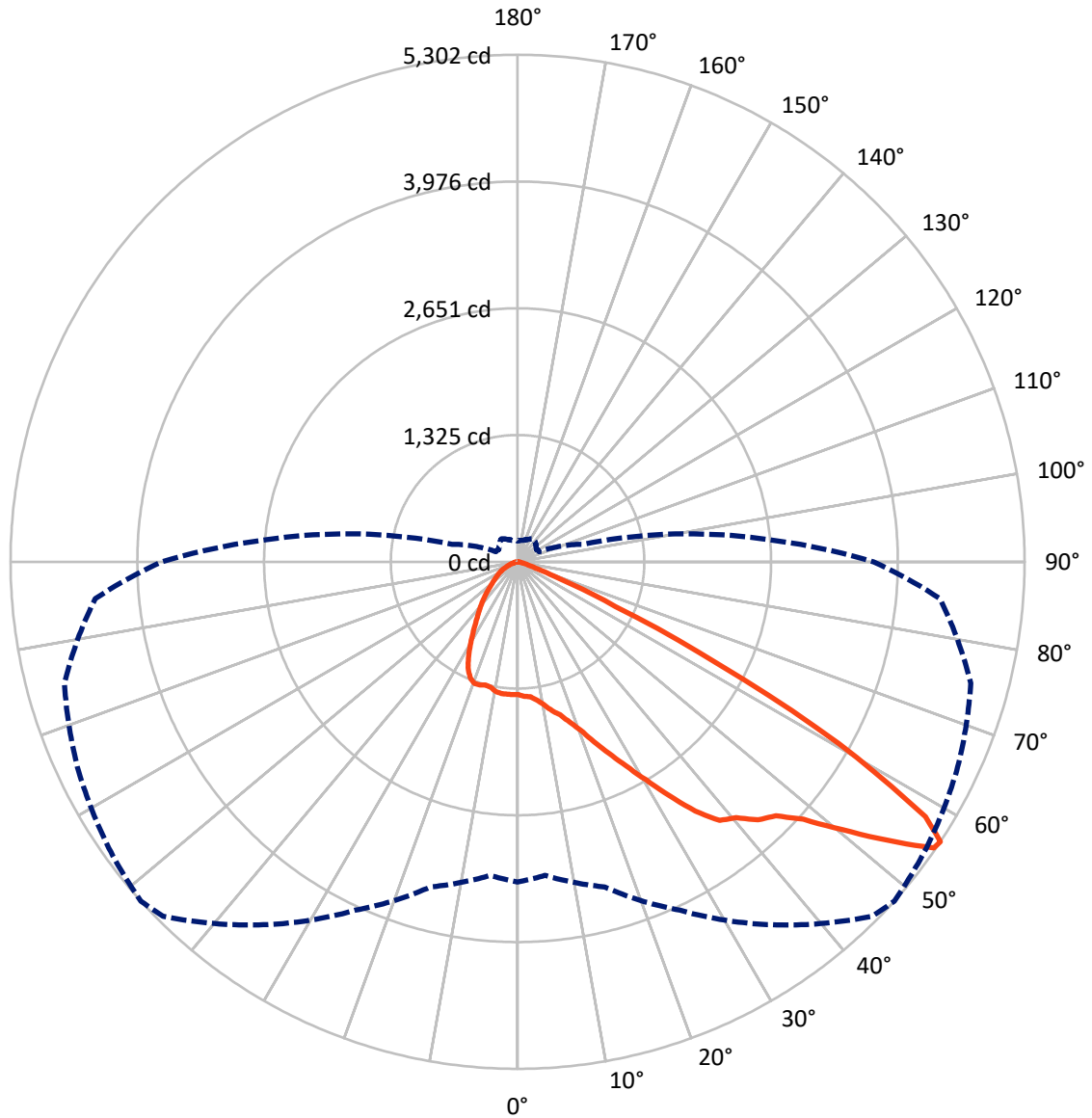
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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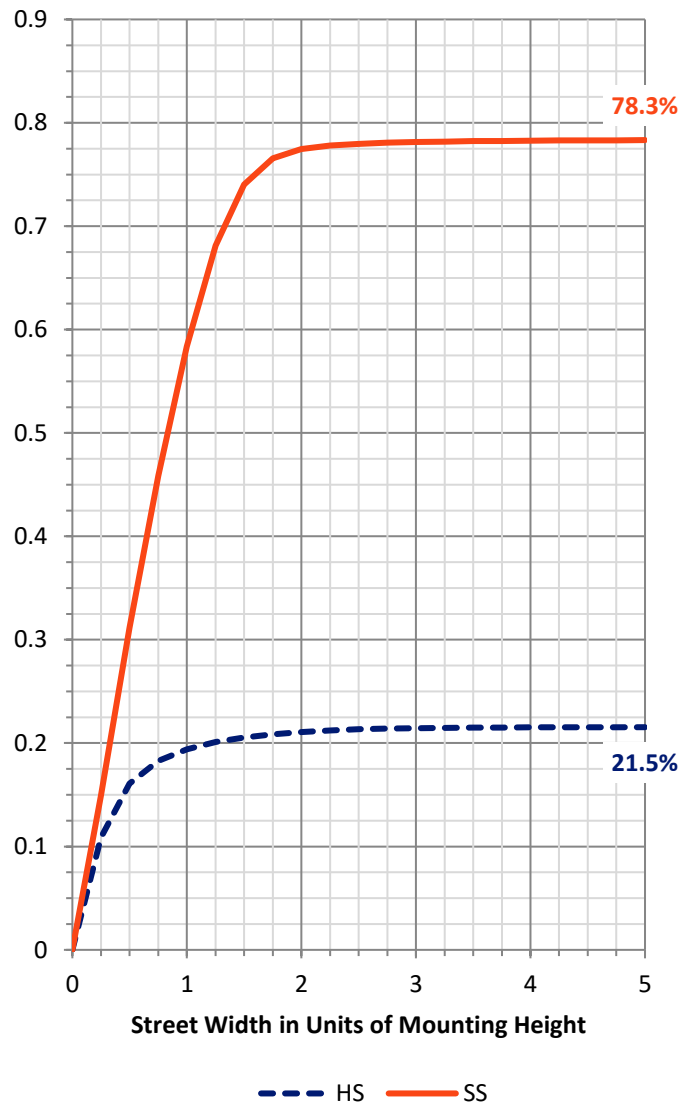
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1582.0	0.0	1582.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5692.1	0.0	5692.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	7274.1	0.0	7274.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.3	1.9
10°-20°	432.5	5.9
20°-30°	784.5	10.8
30°-40°	1232.3	16.9
40°-50°	1797.7	24.7
50°-60°	2165.9	29.8
60°-70°	634.1	8.7
70°-80°	80.5	1.1
80°-90°	11.3	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°	7274.1	100.0
0°-180°	7274.1	100.0

**Coefficient of Utilization**



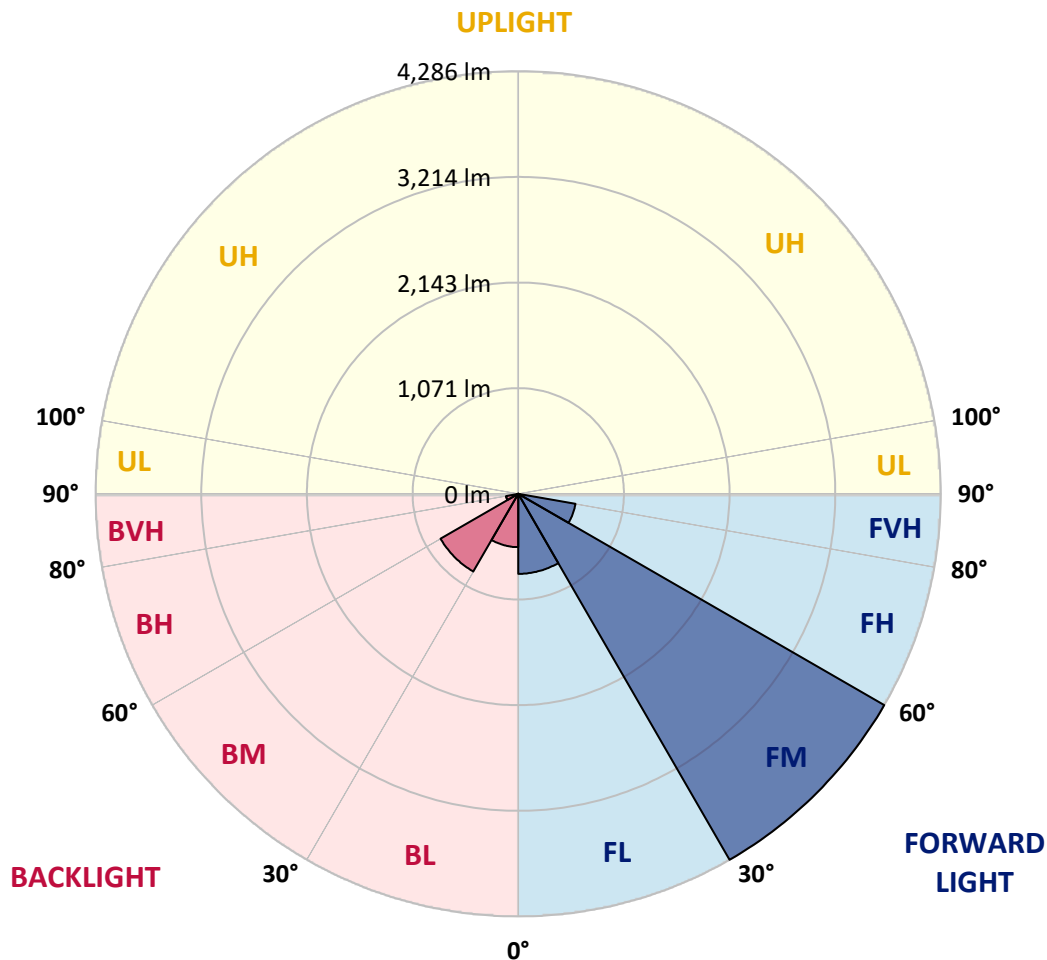
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	811.6	11.2			
FM (30°-60°)	4285.9	58.9			
FH (60°-80°)	588.9	8.1			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	540.7	7.4	B2/1000		
BM (30°-60°)	909.9	12.5	B1/1000		
BH (60°-80°)	125.7	1.7	B1/500		G1/500
BVH (80°-90°)	5.6	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°	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4
2.5°	1414.5	1407.9	1407.9	1397.3	1409.2	1403.9	1407.9	1394.7	1407.9	1388.0	1403.9
5°	1421.1	1422.5	1417.2	1423.8	1423.8	1431.7	1418.5	1430.4	1437.0	1422.5	1415.8
7.5°	1455.6	1458.3	1456.9	1451.6	1462.2	1460.8	1459.5	1450.3	1452.9	1447.6	1439.7
10°	1523.1	1521.8	1528.4	1515.2	1507.2	1516.5	1519.2	1504.6	1494.0	1490.0	1464.8
12.5°	1621.1	1605.2	1596.0	1582.8	1586.7	1573.4	1597.3	1572.1	1566.9	1543.0	1517.8
15°	1700.6	1697.9	1699.3	1678.0	1654.2	1659.6	1659.6	1646.3	1638.3	1609.2	1573.4
17.5°	1863.5	1807.9	1819.8	1793.3	1773.4	1772.1	1760.2	1762.8	1741.6	1680.7	1626.4
20°	1990.6	1966.8	1948.3	1903.2	1872.8	1882.0	1876.8	1863.5	1856.9	1777.4	1700.6
22.5°	2104.5	2112.5	2082.1	2070.1	2027.7	2031.7	2042.3	2030.4	1980.1	1897.9	1784.1
25°	2264.8	2255.5	2214.5	2199.9	2160.2	2174.8	2215.8	2206.6	2174.8	2026.4	1848.9
27.5°	2454.2	2422.4	2430.4	2364.1	2325.7	2366.8	2415.8	2462.1	2372.1	2177.4	1925.8
30°	2588.0	2554.9	2552.2	2549.6	2540.3	2588.0	2644.9	2687.3	2614.4	2328.4	2052.9
32.5°	2654.2	2662.1	2684.7	2676.7	2757.5	2855.5	2915.1	2976.0	2884.7	2574.7	2221.1
35°	2830.4	2780.0	2830.4	2835.6	2919.1	3127.1	3202.5	3348.2	3325.7	2923.1	2426.4
37.5°	2933.7	2929.7	2936.3	2986.7	3067.4	3324.4	3431.7	3544.2	3501.9	3132.3	2682.0
40°	3104.5	3115.1	3113.8	3152.2	3240.9	3472.7	3516.5	3607.8	3611.7	3422.4	3058.2
42.5°	3378.6	3336.3	3308.5	3348.2	3472.7	3601.2	3688.6	3670.1	3801.2	3774.7	3541.6
45°	3625.1	3650.2	3609.2	3675.3	3720.4	3789.3	3786.6	3826.4	3993.2	4119.0	3905.8
47.5°	3855.5	3871.4	3891.3	3936.3	4034.3	4044.9	4022.3	4005.1	4235.6	4365.4	4188.0
50°	3993.2	4007.8	4100.5	4181.3	4364.1	4387.9	4401.2	4357.5	4513.8	4528.3	4454.1
52.5°	3956.1	3972.0	4101.8	4368.0	4659.4	4877.9	4838.2	4764.1	4754.8	4811.8	4700.5
55°	3627.6	3613.1	3791.9	4206.4	4752.1	5276.6	5281.9	5203.7	5054.1	5015.7	4663.4
56°	3348.2	3291.3	3519.0	4019.7	4632.9	5242.2	5301.8	5218.3	5077.9	4905.8	4434.3
57.5°	2742.9	2797.3	3023.7	3438.3	4221.0	4994.5	5029.0	5009.1	4903.1	4614.4	3901.8
60°	1512.5	1607.9	1807.9	2315.2	3005.2	3832.9	3860.8	4022.3	4042.2	3533.6	2684.7
62.5°	642.4	631.8	839.7	1213.2	1711.2	2313.8	2365.4	2531.0	2561.5	2037.0	1347.0
65°	260.9	275.5	380.1	610.6	904.6	1054.2	1127.1	1181.4	1282.1	841.0	496.7
67.5°	172.2	170.9	223.9	348.4	487.4	470.2	470.2	496.7	459.6	343.0	214.5
70°	123.2	127.2	160.3	241.1	303.3	225.2	215.9	206.6	234.4	226.4	173.5
72.5°	80.8	86.1	107.3	144.4	157.6	123.2	123.2	148.3	193.4	182.8	141.7
75°	53.0	54.3	66.2	83.5	78.1	63.6	70.2	99.4	140.4	135.1	100.7
77.5°	35.8	37.1	45.0	54.3	43.7	35.8	38.4	50.3	68.9	68.9	53.0
80°	13.2	14.6	18.6	17.2	19.9	25.1	27.8	34.5	41.0	41.0	35.8
82.5°	0.0	1.3	4.0	9.2	14.6	19.9	22.6	26.5	30.5	34.5	33.1
85°	0.0	1.3	4.0	6.7	10.6	11.9	13.2	9.2	7.9	7.9	6.7
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.7	1.3	1.3
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°	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4	1389.4
2.5°	1389.4	1388.0	1388.0	1384.0	1392.0	1388.0	1390.7	1389.4	1372.1	1385.4	1376.1
5°	1403.9	1413.2	1398.6	1396.0	1385.4	1389.4	1389.4	1376.1	1388.0	1386.7	1384.0
7.5°	1441.0	1425.1	1409.2	1393.3	1390.7	1386.7	1372.1	1366.8	1376.1	1365.5	1381.4
10°	1456.9	1459.5	1435.7	1414.5	1394.7	1366.8	1347.0	1335.0	1320.5	1336.3	1345.7
12.5°	1529.7	1503.3	1462.2	1429.1	1361.6	1333.8	1313.9	1308.5	1333.8	1339.0	1329.8
15°	1554.9	1551.0	1498.0	1423.8	1353.6	1320.5	1324.4	1313.9	1316.5	1303.2	1305.9
17.5°	1606.6	1561.5	1499.3	1406.6	1352.2	1344.3	1320.5	1278.1	1254.3	1243.6	1253.0
20°	1663.5	1619.8	1529.7	1413.2	1364.2	1343.0	1264.9	1213.2	1164.2	1137.7	1139.0
22.5°	1713.8	1659.6	1516.5	1415.8	1374.8	1287.3	1193.4	1091.3	1030.4	989.4	990.7
25°	1774.7	1697.9	1521.8	1421.1	1347.0	1198.6	1063.5	964.2	891.4	863.6	872.8
27.5°	1809.2	1721.8	1551.0	1433.0	1274.1	1072.8	927.2	834.4	792.0	778.8	777.4
30°	1912.5	1774.7	1586.7	1409.2	1152.3	937.7	802.7	745.7	704.6	692.7	695.3
32.5°	2066.2	1871.4	1633.0	1347.0	1027.8	817.2	721.8	679.4	641.0	618.5	615.9
35°	2194.6	2037.0	1682.0	1250.3	883.4	724.5	664.8	611.9	553.7	528.4	521.9
37.5°	2439.7	2223.7	1671.5	1104.6	745.7	655.6	603.9	539.0	488.7	454.3	450.3
40°	2765.5	2442.3	1619.8	927.2	643.7	594.7	539.0	476.8	414.5	385.4	382.7
42.5°	3161.4	2709.8	1525.8	747.0	541.7	533.8	483.4	411.9	356.3	335.1	336.4
45°	3483.3	2939.0	1430.4	600.0	466.2	474.2	430.4	362.9	324.5	307.2	307.2
47.5°	3769.4	3093.9	1327.1	495.3	396.0	414.5	376.2	336.4	303.3	290.0	287.4
50°	4044.9	3251.6	1223.8	401.3	337.7	356.3	352.3	320.5	294.0	278.1	279.5
52.5°	4217.1	3276.7	1092.7	328.5	295.3	316.6	329.8	300.7	271.5	262.2	259.6
55°	4006.5	2952.2	847.7	270.2	250.3	278.1	303.3	270.2	247.7	231.8	230.4
56°	3723.0	2639.6	708.6	249.0	237.1	267.6	294.0	258.2	233.1	223.9	217.2
57.5°	3152.2	2160.2	523.1	221.2	219.9	249.0	279.5	246.3	217.2	209.3	209.3
60°	1965.5	1215.8	316.6	185.4	190.7	221.2	251.7	219.9	193.4	193.4	197.3
62.5°	895.4	506.0	192.1	157.6	164.2	190.7	223.9	198.6	184.1	198.6	201.3
65°	304.6	218.5	139.1	125.8	129.8	157.6	192.1	201.3	200.0	209.3	214.5
67.5°	170.9	140.4	116.6	104.6	101.9	116.6	157.6	201.3	193.4	189.4	192.1
70°	144.4	119.2	103.3	92.7	88.7	94.0	121.8	152.3	136.4	132.5	129.8
72.5°	116.6	99.4	90.0	83.5	71.5	60.9	55.6	58.3	64.9	68.9	75.5
75°	82.1	75.5	75.5	67.6	51.7	38.4	30.5	25.1	17.2	11.9	13.2
77.5°	46.4	46.4	47.7	41.0	33.1	25.1	18.6	13.2	6.7	2.7	1.3
80°	31.8	34.5	37.1	33.1	27.8	22.6	15.9	9.2	4.0	0.0	0.0
82.5°	31.8	35.8	38.4	33.1	27.8	21.2	15.9	9.2	4.0	1.3	0.0
85°	6.7	7.9	9.2	10.6	15.9	15.9	11.9	7.9	4.0	1.3	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)