

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: P648291

Luminaire Tested: **GALN-SA2B-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7014.9 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

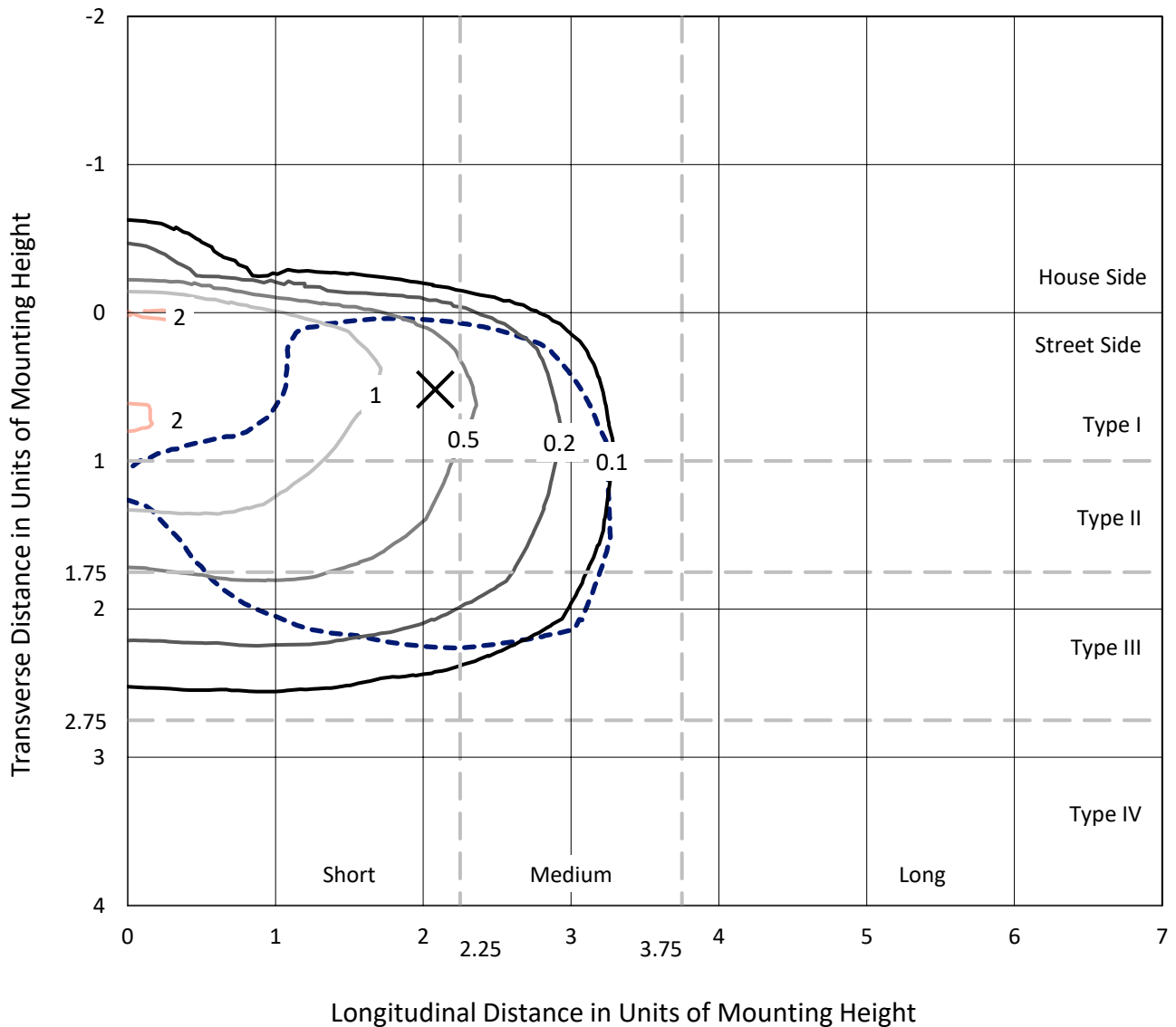
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

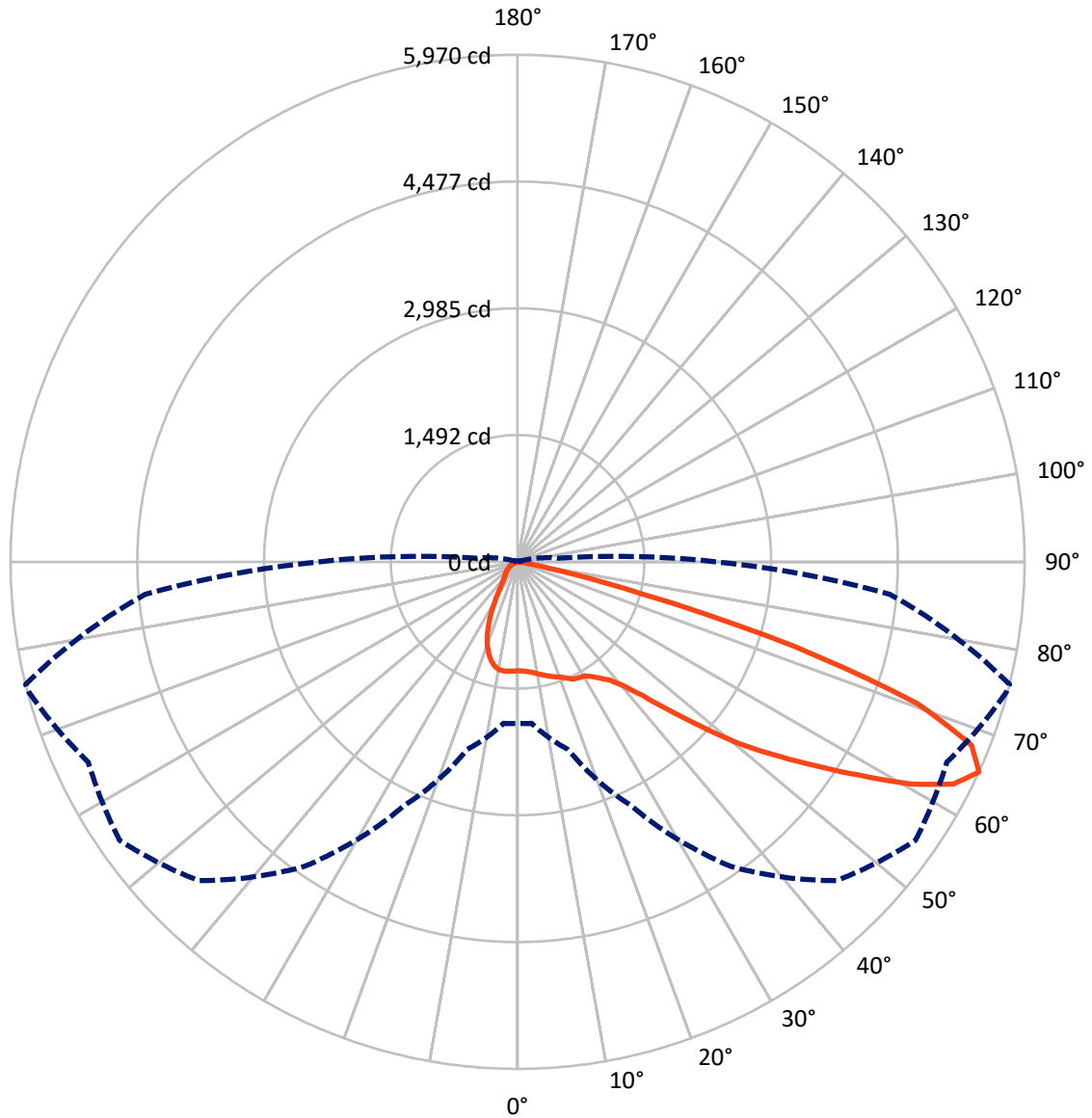
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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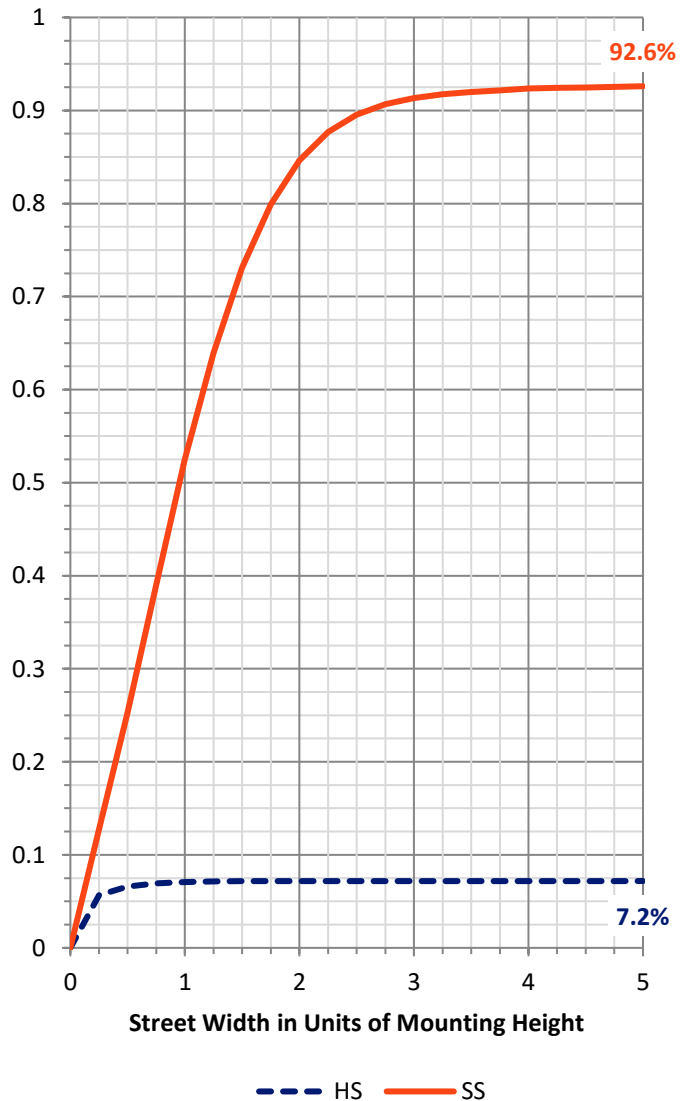
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	506.6	0.0	506.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	6508.3	0.0	6508.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	7014.9	0.0	7014.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	1.5
10°-20°	235.4	3.4
20°-30°	379.3	5.4
30°-40°	659.5	9.4
40°-50°	1089.7	15.5
50°-60°	1683.4	24.0
60°-70°	2055.7	29.3
70°-80°	780.2	11.1
80°-90°	26.0	0.4
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°	7014.9	100.0
0°-180°	7014.9	100.0

**Coefficient of Utilization**



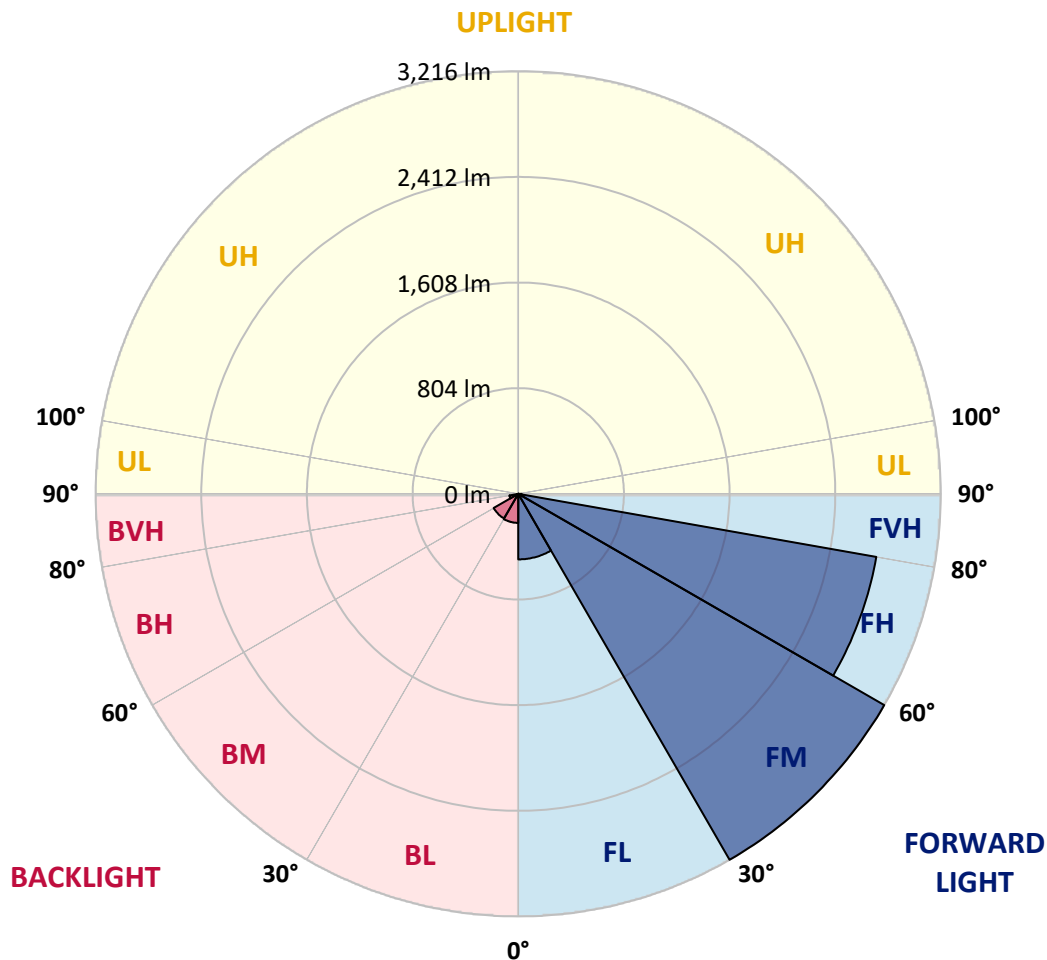
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	7.1			
FM (30°-60°)	3216.4	45.9			
FH (60°-80°)	2767.1	39.4			G2/5000
FVH (80°-90°)	25.7	0.4			G1/100
BL (0°-30°)	221.3	3.2	B1/500		
BM (30°-60°)	216.2	3.1	B0/220		
BH (60°-80°)	68.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1226.3	1226.8	1229.8	1237.2	1248.6	1258.0	1265.9	1278.8	1287.7	1288.7	1291.6
5°	1141.6	1135.7	1141.6	1161.0	1178.3	1204.5	1236.7	1268.9	1297.6	1299.6	1313.5
7.5°	1046.5	1051.5	1060.9	1080.7	1113.3	1153.5	1200.0	1257.5	1312.0	1316.9	1344.2
10°	949.9	960.8	976.2	1006.4	1052.0	1104.0	1167.4	1249.6	1334.8	1341.7	1388.7
12.5°	860.8	865.8	884.6	925.2	981.6	1054.9	1142.6	1245.1	1360.0	1368.4	1436.3
15°	792.4	798.9	815.2	851.9	914.8	1008.9	1122.3	1243.6	1384.8	1396.6	1483.9
17.5°	779.6	783.5	790.4	815.2	870.2	972.3	1104.0	1243.2	1408.5	1422.9	1527.9
20°	832.6	829.1	822.2	819.6	849.9	944.0	1090.6	1247.1	1431.3	1447.7	1574.5
22.5°	965.3	969.7	929.1	881.1	871.2	939.5	1088.6	1265.9	1467.5	1486.8	1626.4
25°	1247.1	1212.9	1149.5	1034.7	948.0	966.8	1110.9	1310.5	1509.6	1530.9	1673.5
27.5°	1558.6	1548.2	1449.6	1260.5	1099.0	1024.2	1150.5	1344.6	1523.5	1545.3	1700.3
30°	1864.7	1877.1	1764.2	1555.1	1318.4	1130.7	1187.7	1357.6	1535.9	1558.6	1734.4
32.5°	2148.5	2163.4	2064.3	1857.3	1577.0	1315.0	1251.5	1407.6	1587.8	1611.1	1791.4
35°	2371.9	2373.8	2299.0	2134.1	1859.2	1538.8	1389.7	1495.2	1658.2	1685.4	1851.8
37.5°	2576.9	2574.0	2486.3	2344.1	2094.5	1761.2	1563.6	1596.2	1738.4	1766.6	1939.0
40°	2728.9	2730.9	2702.7	2568.9	2313.9	1966.7	1701.2	1690.9	1873.1	1917.2	2065.8
42.5°	2830.5	2848.8	2862.6	2794.8	2589.8	2219.8	1912.7	1893.5	2106.9	2143.5	2245.1
45°	2912.7	2945.4	3014.7	3011.3	2854.7	2530.3	2203.0	2163.4	2438.2	2477.3	2473.4
47.5°	2972.6	3005.8	3120.7	3190.0	3103.9	2831.5	2568.0	2533.8	2833.9	2876.5	2725.5
50°	3003.4	3043.0	3189.6	3323.8	3298.5	3121.7	2984.0	2986.0	3311.9	3353.0	3017.7
52.5°	2931.5	2983.0	3226.2	3467.9	3516.9	3399.6	3373.8	3439.2	3737.3	3772.5	3281.6
55°	2702.2	2767.0	3176.2	3590.7	3770.0	3727.4	3816.6	3916.1	4202.4	4225.1	3552.5
57.5°	2557.1	2625.9	3028.6	3695.2	4074.1	4139.5	4280.7	4353.4	4682.3	4740.3	3863.6
60°	2434.7	2488.8	2907.3	3717.5	4383.2	4643.7	4780.8	4856.2	5274.7	5312.3	4205.9
62.5°	2231.2	2293.1	2702.2	3562.0	4538.7	5047.3	5331.6	5297.9	5732.7	5759.0	4415.8
65°	1903.8	1909.3	2286.2	3171.2	4378.2	5309.3	5718.4	5577.2	5951.7	5969.5	4399.5
67.5°	1420.9	1473.4	1758.7	2492.7	3698.2	5085.4	5843.7	5584.7	5813.5	5764.0	4050.3
70°	915.2	955.4	1192.1	1728.5	2666.5	4244.0	5428.1	5201.9	5102.3	4992.3	3315.4
72.5°	422.4	473.9	708.2	987.6	1581.4	3023.2	4406.4	4226.2	3672.4	3401.0	2107.4
75°	184.2	197.1	349.7	521.0	741.4	1598.7	2905.2	2623.4	1658.6	1515.0	843.4
77.5°	112.4	120.8	183.2	279.3	291.2	609.2	1565.1	1144.6	512.6	452.2	228.8
80°	76.3	85.7	133.3	146.1	99.5	169.9	587.4	305.6	103.5	99.0	49.0
82.5°	37.1	47.1	98.6	81.7	43.1	54.5	170.9	65.4	30.2	28.3	17.3
85°	5.5	9.4	55.4	53.5	19.3	12.8	30.2	16.4	10.4	9.9	7.9
87.5°	0.0	0.0	18.8	8.5	2.0	2.0	3.4	3.4	4.0	3.4	4.0
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°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1293.1	1295.6	1286.2	1272.8	1258.5	1244.1	1223.8	1205.5	1194.6	1201.0	1185.1
5°	1316.5	1314.4	1289.7	1249.0	1195.1	1130.2	1065.8	1010.9	993.0	966.3	963.3
7.5°	1348.6	1343.2	1290.7	1197.6	1075.8	953.9	835.0	756.3	711.2	673.1	674.1
10°	1393.7	1377.8	1279.3	1106.9	906.3	722.6	571.0	467.1	422.0	407.6	396.2
12.5°	1440.3	1409.6	1247.6	984.6	705.8	493.8	347.2	283.8	256.0	247.1	246.2
15°	1481.8	1433.3	1192.1	837.5	513.1	315.5	236.7	216.0	212.5	213.0	212.5
17.5°	1522.9	1452.2	1115.4	681.5	348.7	226.4	203.6	198.6	200.1	202.1	201.5
20°	1557.2	1456.1	1017.3	520.1	246.6	198.6	191.2	190.2	191.7	193.2	193.2
22.5°	1594.3	1459.0	900.9	360.0	201.5	184.7	180.8	180.8	182.8	184.7	185.3
25°	1622.0	1442.8	761.7	258.5	177.8	171.4	169.4	169.9	171.9	172.9	172.3
27.5°	1626.4	1396.6	614.1	198.1	161.5	155.0	153.1	155.0	152.5	154.0	153.1
30°	1630.4	1338.2	464.6	166.9	146.6	136.7	133.7	130.8	128.8	126.3	125.8
32.5°	1642.8	1269.4	339.3	150.1	132.7	121.8	114.9	106.5	100.1	98.0	97.6
35°	1648.3	1186.6	249.2	136.7	120.3	108.4	96.1	84.2	74.8	71.3	73.8
37.5°	1669.0	1106.5	193.2	126.8	109.5	94.6	78.8	63.9	55.0	53.0	53.9
40°	1711.6	1019.2	161.9	118.4	100.1	81.7	62.4	48.1	42.1	40.1	39.6
42.5°	1780.0	932.6	144.2	110.5	90.7	68.8	49.0	37.7	32.7	31.2	31.2
45°	1863.2	849.4	131.8	102.0	80.7	55.4	38.6	30.2	27.2	26.2	26.2
47.5°	1972.7	776.6	121.4	93.6	69.8	44.1	31.2	26.2	24.3	24.7	25.3
50°	2083.6	722.6	109.9	84.2	57.5	36.2	26.8	23.3	22.8	23.3	23.3
52.5°	2167.3	690.9	94.6	71.3	45.1	30.2	23.8	21.8	21.3	20.3	20.3
55°	2280.3	684.0	75.2	57.9	35.6	25.3	21.3	19.8	18.3	17.3	16.8
57.5°	2425.3	691.9	57.9	45.1	27.7	20.8	18.8	16.4	14.3	12.4	12.4
60°	2515.5	674.1	45.1	34.7	20.3	16.8	14.3	11.9	9.4	7.9	7.4
62.5°	2486.7	598.8	35.6	25.8	14.3	12.4	9.4	7.9	5.5	4.0	3.4
65°	2338.7	483.3	28.7	17.9	10.4	7.4	4.9	4.9	2.5	0.5	0.0
67.5°	2046.9	358.1	22.8	11.9	6.0	3.4	2.5	1.5	0.0	0.0	0.0
70°	1666.1	258.5	17.9	7.4	3.4	2.5	1.0	0.5	0.0	0.0	0.0
72.5°	1057.9	148.1	13.9	4.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0
75°	409.1	57.9	9.4	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	115.9	27.2	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.2	11.9	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)