

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: P652251

Luminaire Tested: **GALN-SA2B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652251
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-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 7534.5 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

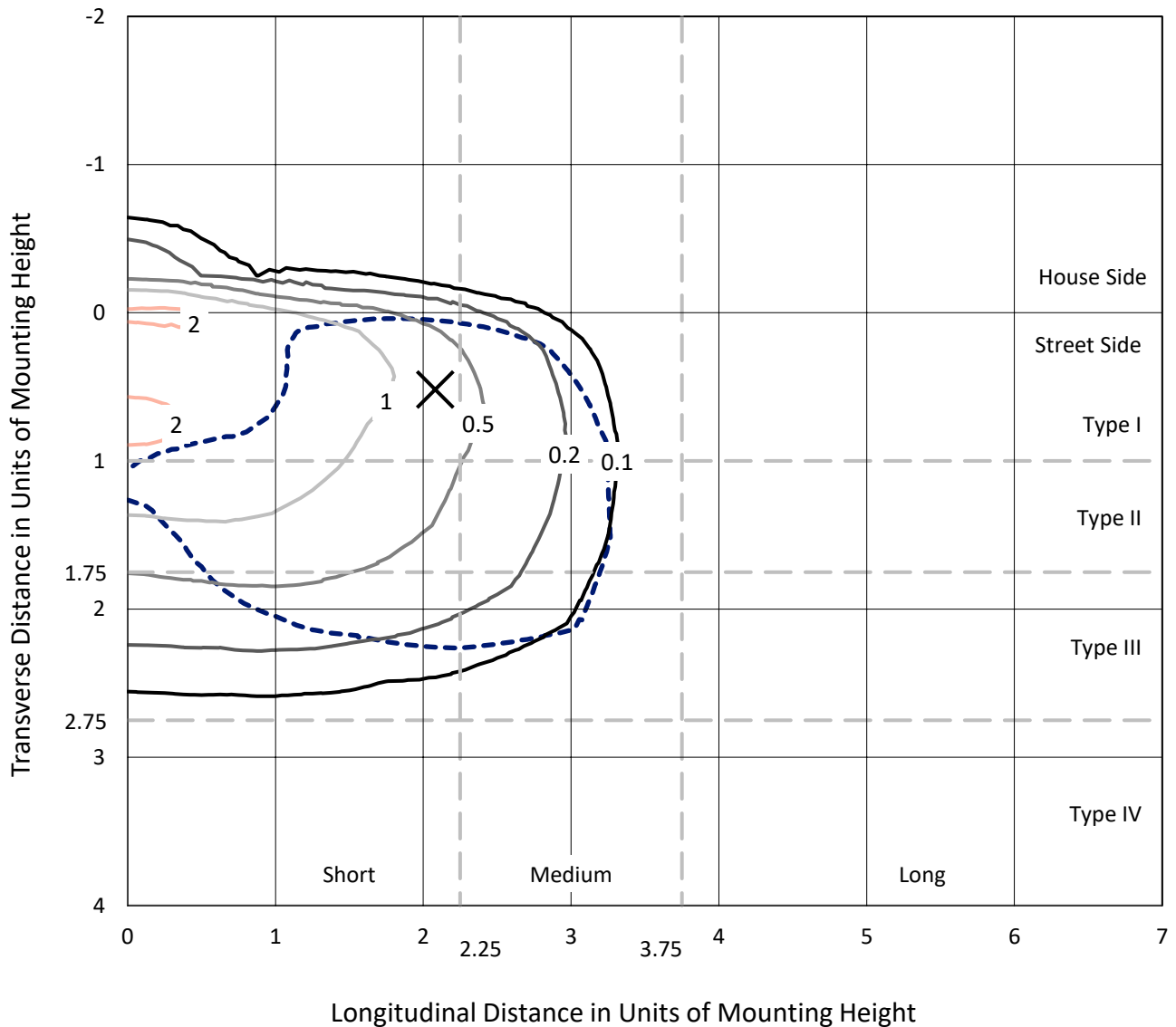
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

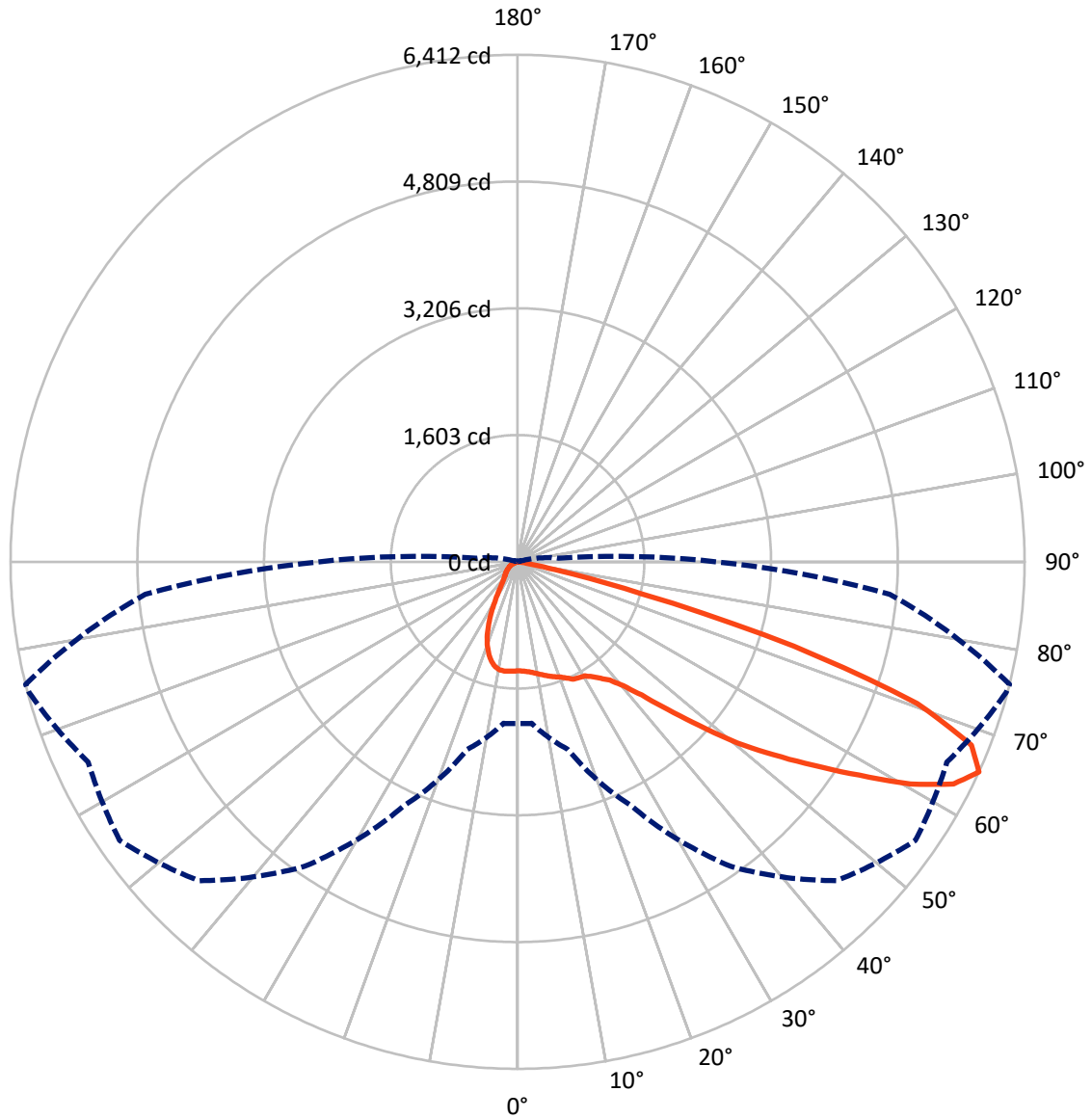
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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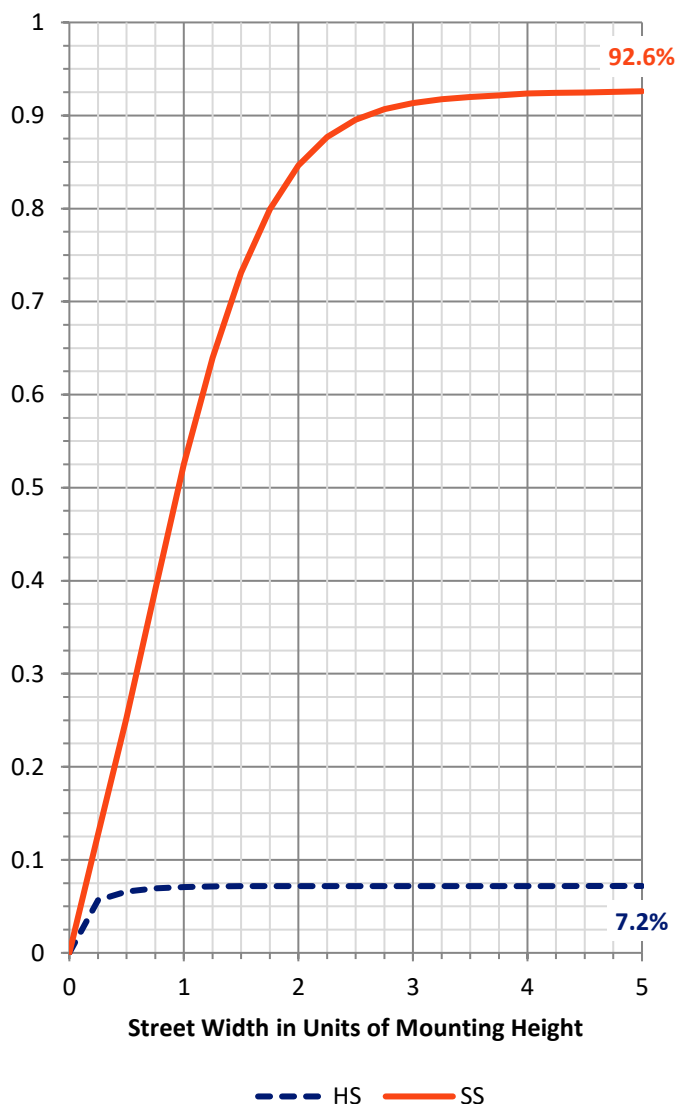
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.2	0.0	544.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6990.4	0.0	6990.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	7534.5	0.0	7534.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	1.5
10°-20°	252.8	3.4
20°-30°	407.4	5.4
30°-40°	708.3	9.4
40°-50°	1170.5	15.5
50°-60°	1808.1	24.0
60°-70°	2208.0	29.3
70°-80°	838.0	11.1
80°-90°	28.0	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°	7534.5	100.0
0°-180°	7534.5	100.0

Coefficient of Utilization

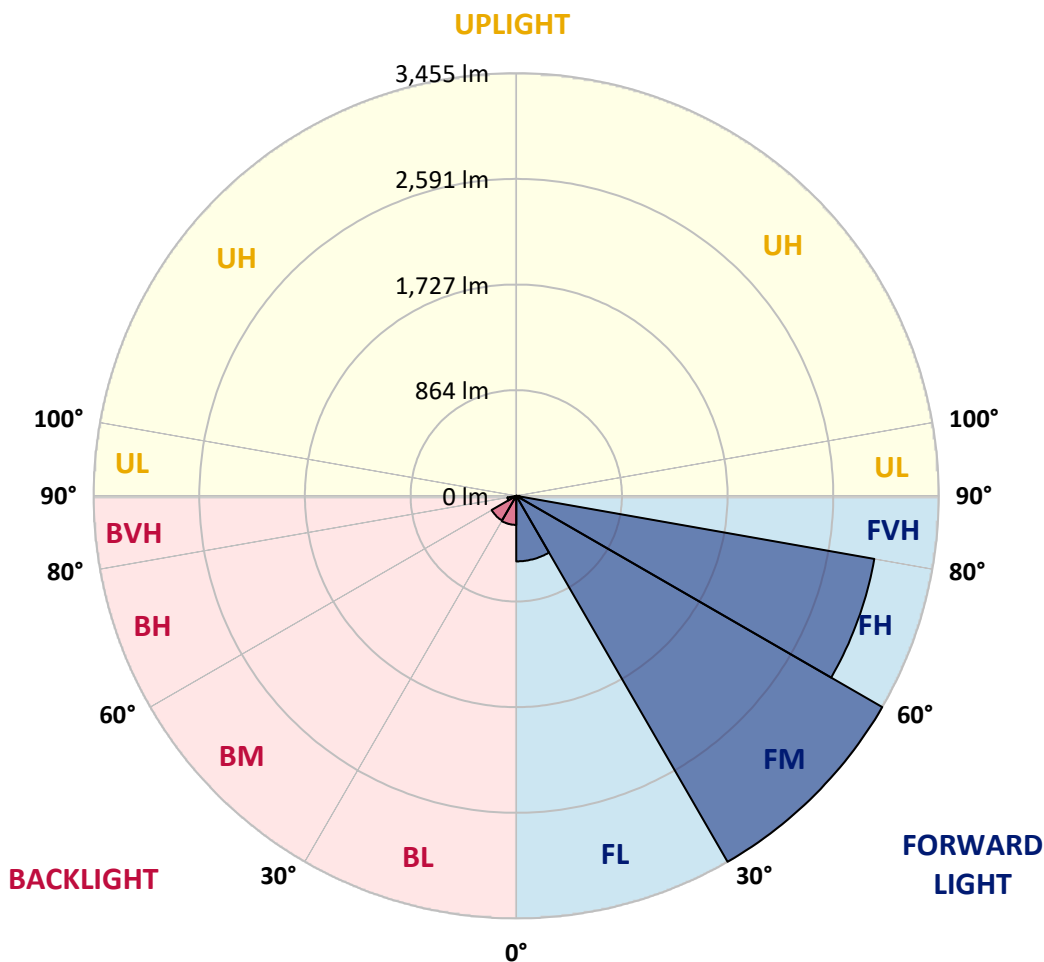


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.0	7.1			
FM (30°-60°)	3454.7	45.9			
FH (60°-80°)	2972.1	39.4			G2/5000
FVH (80°-90°)	27.6	0.4			G1/100
BL (0°-30°)	237.7	3.2	B1/500		
BM (30°-60°)	232.2	3.1	B1/1000		
BH (60°-80°)	73.8	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°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3
2.5°	1317.1	1317.7	1320.9	1328.9	1341.1	1351.2	1359.6	1373.5	1383.1	1384.1	1387.3
5°	1226.2	1219.8	1226.2	1247.0	1265.5	1293.7	1328.3	1362.8	1393.7	1395.9	1410.8
7.5°	1124.0	1129.4	1139.5	1160.7	1195.8	1239.0	1288.9	1350.6	1409.2	1414.5	1443.7
10°	1020.3	1032.0	1048.5	1080.9	1129.9	1185.7	1253.8	1342.2	1433.7	1441.1	1491.6
12.5°	924.5	929.9	950.1	993.7	1054.4	1133.1	1227.2	1337.4	1460.7	1469.8	1542.6
15°	851.1	858.1	875.6	915.0	982.5	1083.6	1205.4	1335.8	1487.4	1500.1	1593.8
17.5°	837.3	841.6	849.0	875.6	934.7	1044.3	1185.7	1335.3	1512.9	1528.3	1641.1
20°	894.2	890.5	883.0	880.4	912.8	1013.9	1171.3	1339.5	1537.3	1554.9	1691.1
22.5°	1036.8	1041.6	997.9	946.4	935.7	1009.1	1169.2	1359.6	1576.2	1597.0	1746.9
25°	1339.5	1302.8	1234.7	1111.3	1018.2	1038.4	1193.2	1407.6	1621.4	1644.3	1797.5
27.5°	1674.1	1662.9	1557.0	1353.8	1180.4	1100.1	1235.8	1444.2	1636.3	1659.7	1826.2
30°	2002.8	2016.1	1894.9	1670.3	1416.1	1214.5	1275.6	1458.1	1649.6	1674.1	1862.9
32.5°	2307.6	2323.6	2217.2	1994.9	1693.8	1412.4	1344.3	1511.9	1705.5	1730.4	1924.1
35°	2547.6	2549.7	2469.3	2292.2	1997.0	1652.8	1492.7	1606.0	1781.0	1810.3	1989.0
37.5°	2767.8	2764.6	2670.4	2517.8	2249.7	1891.7	1679.4	1714.5	1867.2	1897.5	2082.7
40°	2931.1	2933.2	2902.9	2759.2	2485.3	2112.4	1827.2	1816.1	2011.8	2059.2	2218.8
42.5°	3040.1	3059.8	3074.7	3001.9	2781.6	2384.2	2054.4	2033.7	2263.0	2302.3	2411.4
45°	3128.4	3163.6	3238.0	3234.3	3066.2	2717.8	2366.2	2323.6	2618.8	2660.8	2656.6
47.5°	3192.8	3228.4	3351.9	3426.3	3333.8	3041.2	2758.2	2721.5	3043.8	3089.6	2927.4
50°	3225.8	3268.4	3425.8	3570.0	3542.9	3352.9	3205.1	3207.2	3557.2	3601.3	3241.2
52.5°	3148.6	3204.0	3465.2	3724.8	3777.4	3651.4	3623.7	3693.9	4014.2	4051.9	3524.7
55°	2902.4	2972.0	3411.4	3856.7	4049.2	4003.5	4099.3	4206.2	4513.6	4538.1	3815.7
57.5°	2746.5	2820.5	3252.9	3968.9	4375.9	4446.1	4597.7	4675.9	5029.1	5091.4	4149.8
60°	2615.1	2673.1	3122.6	3992.9	4707.8	4987.6	5135.0	5215.9	5665.4	5705.8	4517.4
62.5°	2396.5	2463.0	2902.4	3825.9	4874.9	5421.2	5726.5	5690.4	6157.4	6185.6	4742.9
65°	2044.8	2050.7	2455.6	3406.1	4702.5	5702.6	6142.0	5990.4	6392.5	6411.7	4725.4
67.5°	1526.2	1582.6	1889.0	2677.3	3972.1	5462.1	6276.6	5998.3	6244.1	6190.9	4350.3
70°	983.0	1026.2	1280.4	1856.5	2864.0	4558.4	5830.2	5587.2	5480.2	5362.1	3561.0
72.5°	453.7	509.1	760.7	1060.8	1698.6	3247.1	4732.8	4539.2	3944.5	3653.0	2263.5
75°	197.9	211.7	375.6	559.6	796.3	1717.2	3120.4	2817.8	1781.5	1627.3	905.9
77.5°	120.8	129.8	196.8	300.0	312.8	654.3	1681.0	1229.4	550.6	485.7	245.7
80°	81.9	92.0	143.1	156.9	106.9	182.5	630.9	328.2	111.2	106.4	52.6
82.5°	39.9	50.5	105.9	87.8	46.3	58.5	183.5	70.2	32.5	30.4	18.6
85°	5.9	10.1	59.5	57.4	20.8	13.8	32.5	17.6	11.2	10.7	8.5
87.5°	0.0	0.0	20.2	9.1	2.1	2.1	3.7	3.7	4.3	3.7	4.3
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°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3
2.5°	1388.9	1391.6	1381.5	1367.1	1351.7	1336.3	1314.5	1294.8	1283.1	1290.0	1272.9
5°	1414.0	1411.8	1385.2	1341.6	1283.6	1213.9	1144.8	1085.7	1066.6	1037.9	1034.7
7.5°	1448.5	1442.7	1386.3	1286.3	1155.4	1024.6	896.8	812.3	763.9	722.9	724.0
10°	1496.9	1479.9	1374.0	1188.9	973.5	776.2	613.3	501.7	453.2	437.8	425.5
12.5°	1546.9	1514.0	1340.0	1057.6	758.1	530.3	372.9	304.8	275.0	265.4	264.4
15°	1591.6	1539.5	1280.4	899.5	551.1	338.8	254.2	231.9	228.2	228.8	228.2
17.5°	1635.7	1559.7	1198.0	732.0	374.5	243.1	218.7	213.3	214.9	217.1	216.5
20°	1672.5	1563.9	1092.6	558.6	264.9	213.3	205.4	204.3	205.9	207.5	207.5
22.5°	1712.4	1567.1	967.7	386.7	216.5	198.4	194.2	194.2	196.3	198.4	199.0
25°	1742.1	1549.6	818.1	277.7	191.0	184.1	181.9	182.5	184.6	185.7	185.1
27.5°	1746.9	1500.1	659.6	212.8	173.4	166.5	164.4	166.5	163.8	165.4	164.4
30°	1751.2	1437.4	499.0	179.3	157.4	146.8	143.6	140.4	138.3	135.7	135.1
32.5°	1764.5	1363.4	364.4	161.2	142.5	130.9	123.4	114.4	107.5	105.3	104.8
35°	1770.4	1274.5	267.6	146.8	129.3	116.5	103.2	90.4	80.3	76.6	79.2
37.5°	1792.7	1188.4	207.5	136.2	117.6	101.6	84.6	68.6	59.0	56.9	57.9
40°	1838.4	1094.7	173.9	127.2	107.5	87.8	67.0	51.6	45.2	43.1	42.6
42.5°	1911.8	1001.7	154.8	118.7	97.4	73.9	52.6	40.5	35.1	33.5	33.5
45°	2001.2	912.3	141.5	109.6	86.7	59.5	41.5	32.5	29.3	28.2	28.2
47.5°	2118.8	834.1	130.4	100.5	75.0	47.3	33.5	28.2	26.1	26.6	27.2
50°	2238.0	776.2	118.1	90.4	61.7	38.9	28.8	25.0	24.5	25.0	25.0
52.5°	2327.9	742.1	101.6	76.6	48.4	32.5	25.6	23.4	22.9	21.8	21.8
55°	2449.2	734.6	80.8	62.2	38.3	27.2	22.9	21.3	19.7	18.6	18.1
57.5°	2605.0	743.1	62.2	48.4	29.8	22.4	20.2	17.6	15.4	13.3	13.3
60°	2701.8	724.0	48.4	37.3	21.8	18.1	15.4	12.8	10.1	8.5	8.0
62.5°	2670.9	643.1	38.3	27.7	15.4	13.3	10.1	8.5	5.9	4.3	3.7
65°	2511.9	519.1	30.9	19.2	11.2	8.0	5.3	5.3	2.7	0.5	0.0
67.5°	2198.5	384.6	24.5	12.8	6.4	3.7	2.7	1.6	0.0	0.0	0.0
70°	1789.5	277.7	19.2	8.0	3.7	2.7	1.1	0.5	0.0	0.0	0.0
72.5°	1136.3	159.0	14.9	4.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0
75°	439.4	62.2	10.1	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	124.5	29.3	5.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.5	12.8	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)