

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: P527931

Luminaire Tested: **GALN-SA3A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527931  
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-SA3A-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA 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: 6818 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

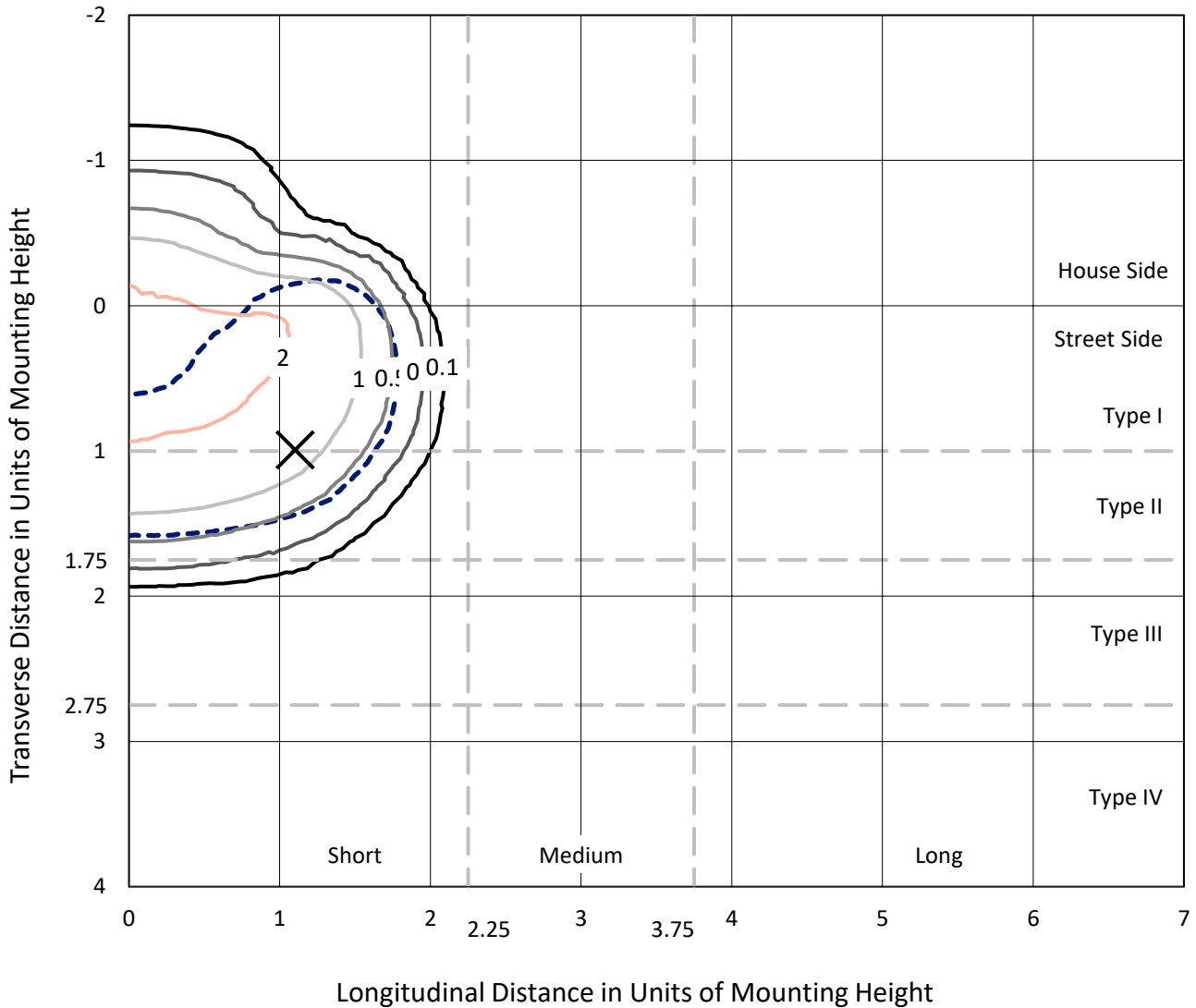
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

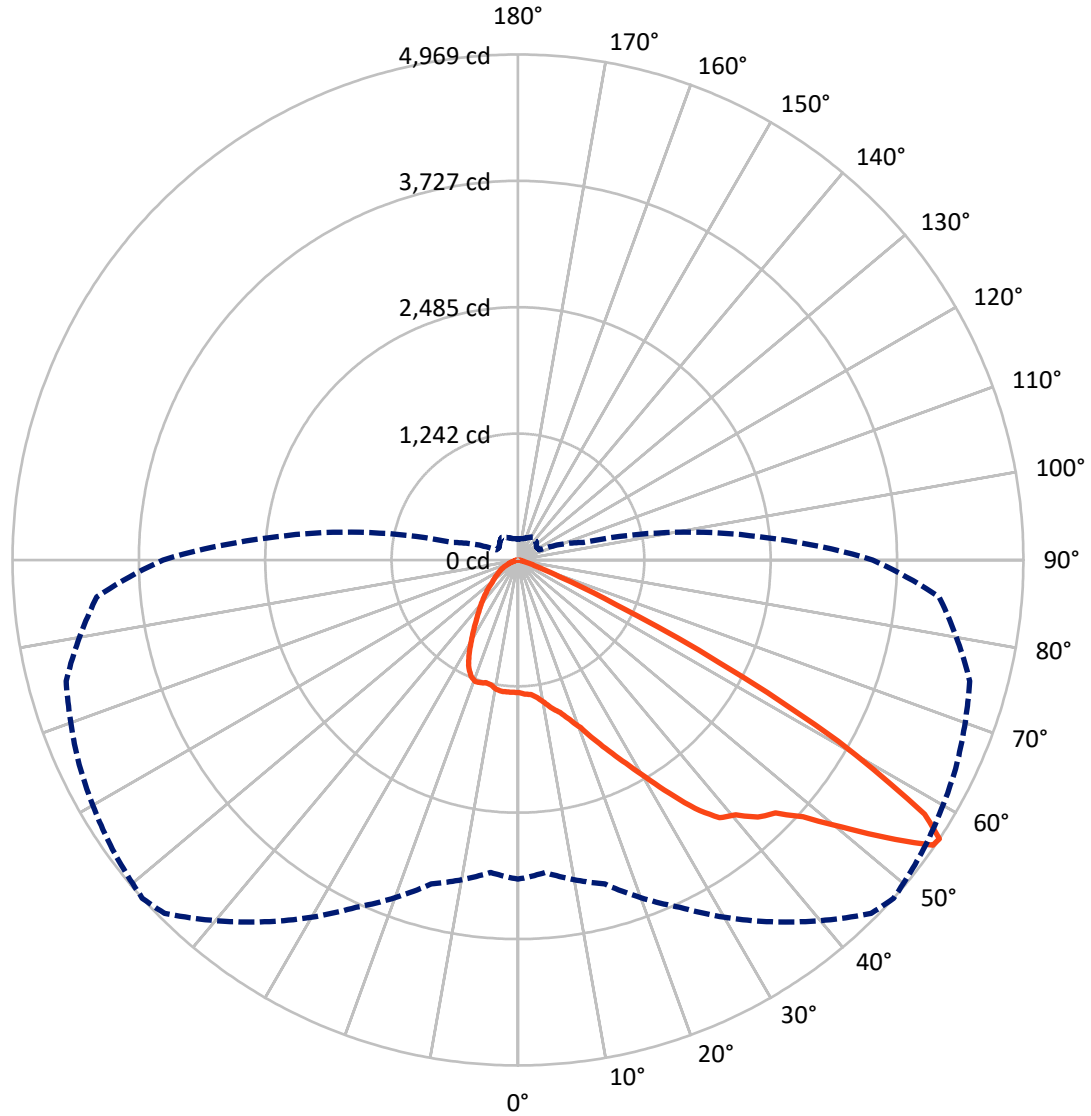
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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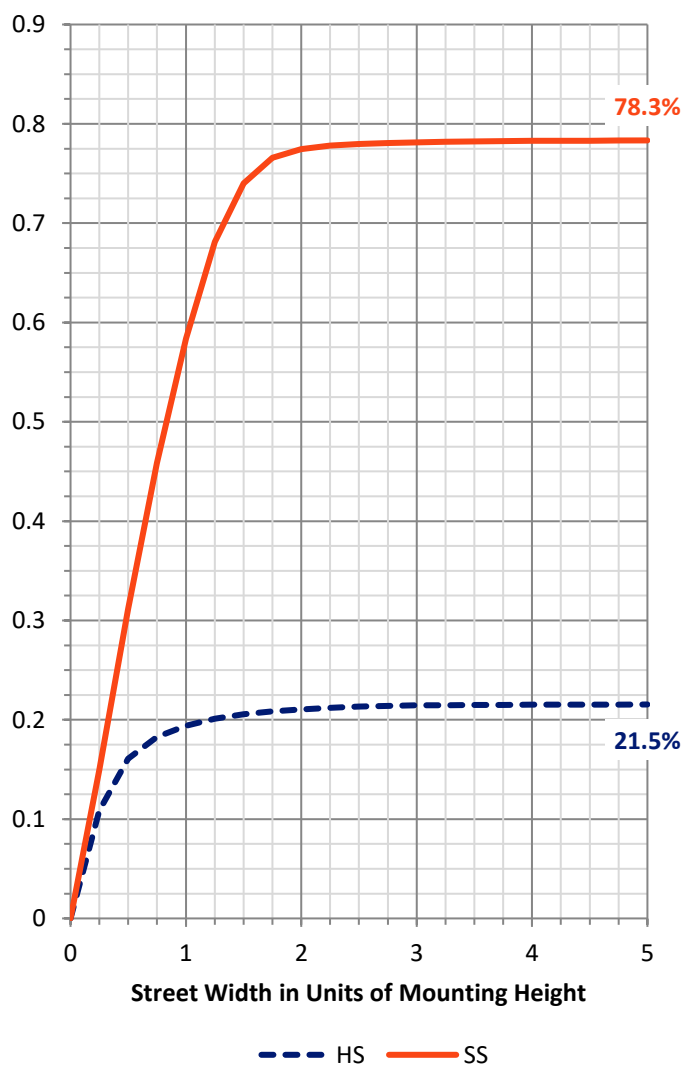
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1482.8	0.0	1482.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5335.2	0.0	5335.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	6818.0	0.0	6818.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	1.9
10°-20°	405.4	5.9
20°-30°	735.3	10.8
30°-40°	1155.0	16.9
40°-50°	1685.0	24.7
50°-60°	2030.1	29.8
60°-70°	594.4	8.7
70°-80°	75.4	1.1
80°-90°	10.6	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°	6818.0	100.0
0°-180°	6818.0	100.0

**Coefficient of Utilization**



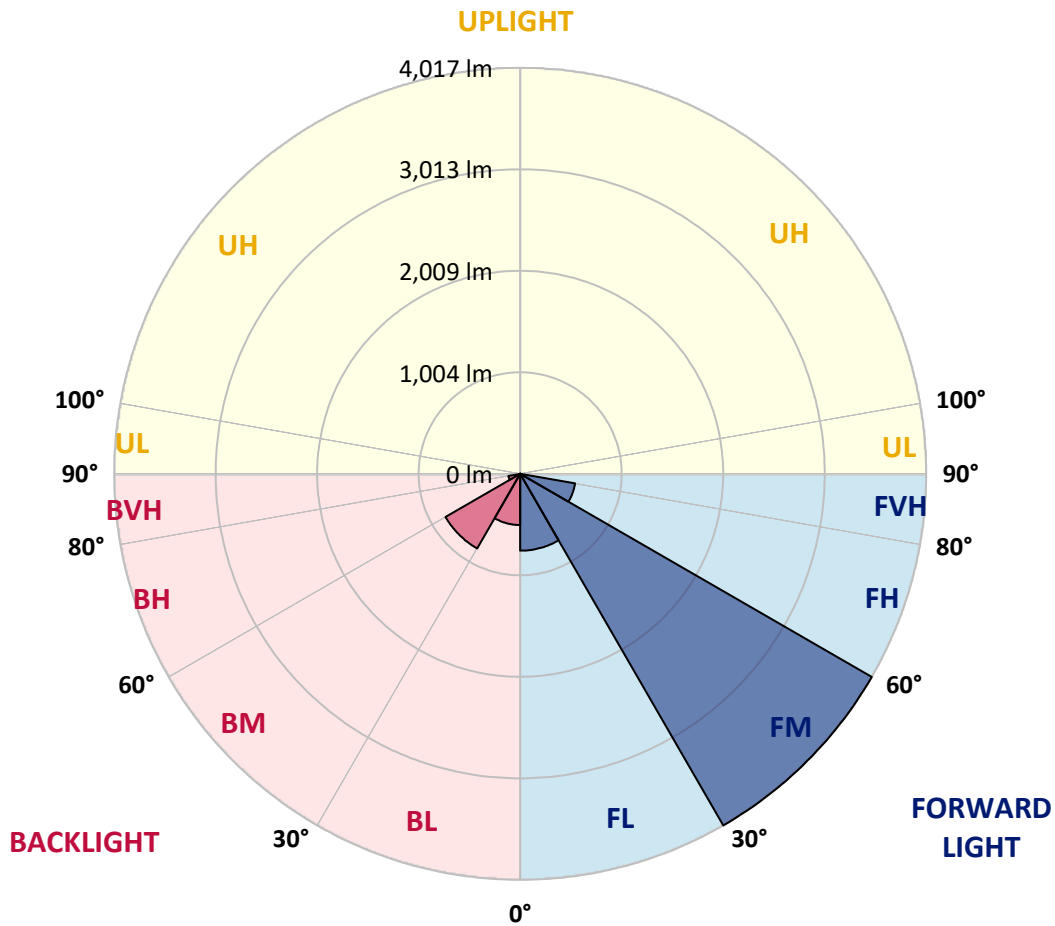
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.8	11.2			
FM (30°-60°)	4017.2	58.9			
FH (60°-80°)	552.0	8.1			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	506.8	7.4	B2/1000		
BM (30°-60°)	852.9	12.5	B1/1000		
BH (60°-80°)	117.8	1.7	B1/500		G1/500
BVH (80°-90°)	5.3	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°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1325.8	1319.6	1319.6	1309.7	1320.9	1315.9	1319.6	1307.2	1319.6	1301.0	1315.9
5°	1332.0	1333.3	1328.3	1334.5	1334.5	1342.0	1329.6	1340.7	1346.9	1333.3	1327.1
7.5°	1364.3	1366.8	1365.6	1360.6	1370.5	1369.3	1368.0	1359.3	1361.8	1356.9	1349.4
10°	1427.6	1426.4	1432.6	1420.2	1412.7	1421.4	1423.9	1410.2	1400.3	1396.6	1373.0
12.5°	1519.5	1504.6	1495.9	1483.5	1487.2	1474.8	1497.1	1473.6	1468.6	1446.2	1422.7
15°	1594.0	1591.5	1592.7	1572.9	1550.5	1555.5	1555.5	1543.1	1535.6	1508.3	1474.8
17.5°	1746.7	1694.5	1705.7	1680.9	1662.3	1661.0	1649.8	1652.3	1632.5	1575.4	1524.5
20°	1865.8	1843.5	1826.1	1783.9	1755.4	1764.0	1759.1	1746.7	1740.5	1666.0	1594.0
22.5°	1972.6	1980.1	1951.5	1940.3	1900.6	1904.3	1914.3	1903.1	1855.9	1778.9	1672.2
25°	2122.8	2114.1	2075.6	2062.0	2024.7	2038.4	2076.9	2068.2	2038.4	1899.4	1733.0
27.5°	2300.3	2270.5	2278.0	2215.9	2179.9	2218.4	2264.3	2307.8	2223.4	2040.9	1805.0
30°	2425.7	2394.7	2392.2	2389.7	2381.0	2425.7	2479.1	2518.8	2450.5	2182.4	1924.2
32.5°	2487.8	2495.2	2516.3	2508.9	2584.6	2676.5	2732.3	2789.5	2703.8	2413.3	2081.8
35°	2652.9	2605.7	2652.9	2657.9	2736.1	2931.0	3001.7	3138.3	3117.2	2739.8	2274.3
37.5°	2749.7	2746.0	2752.2	2799.4	2875.1	3115.9	3216.5	3322.0	3282.3	2935.9	2513.9
40°	2909.9	2919.8	2918.6	2954.6	3037.7	3255.0	3295.9	3381.6	3385.3	3207.8	2866.4
42.5°	3166.8	3127.1	3101.0	3138.3	3255.0	3375.4	3457.3	3440.0	3562.9	3538.0	3319.5
45°	3397.7	3421.3	3382.8	3444.9	3487.1	3551.7	3549.2	3586.4	3742.9	3860.8	3660.9
47.5°	3613.7	3628.6	3647.3	3689.5	3781.3	3791.3	3770.2	3754.0	3970.0	4091.7	3925.3
50°	3742.9	3756.5	3843.4	3919.1	4090.5	4112.8	4125.2	4084.2	4230.7	4244.4	4174.9
52.5°	3708.1	3723.0	3844.7	4094.2	4367.3	4572.1	4534.9	4465.4	4456.7	4510.0	4405.8
55°	3400.2	3386.6	3554.2	3942.7	4454.2	4945.8	4950.8	4877.5	4737.2	4701.2	4371.0
56°	3138.3	3084.9	3298.4	3767.7	4342.5	4913.5	4969.4	4891.2	4759.6	4598.2	4156.2
57.5°	2571.0	2621.9	2834.1	3222.7	3956.4	4681.4	4713.6	4695.0	4595.7	4325.1	3657.2
60°	1417.7	1507.1	1694.5	2170.0	2816.8	3592.6	3618.7	3770.2	3788.8	3312.1	2516.3
62.5°	602.1	592.2	787.1	1137.1	1603.9	2168.7	2217.2	2372.3	2400.9	1909.3	1262.5
65°	244.6	258.2	356.3	572.3	847.9	988.2	1056.4	1107.3	1201.7	788.3	465.5
67.5°	161.4	160.1	209.8	326.5	456.8	440.7	440.7	465.5	430.8	321.5	201.1
70°	115.5	119.2	150.2	225.9	284.3	211.0	202.4	193.7	219.7	212.3	162.6
72.5°	75.7	80.7	100.6	135.3	147.7	115.5	115.5	139.0	181.2	171.3	132.8
75°	49.7	50.9	62.1	78.2	73.2	59.6	65.8	93.1	131.6	126.6	94.3
77.5°	33.5	34.8	42.2	50.9	41.0	33.5	36.0	47.2	64.6	64.6	49.7
80°	12.4	13.7	17.4	16.1	18.6	23.6	26.1	32.3	38.5	38.5	33.5
82.5°	0.0	1.2	3.7	8.7	13.7	18.6	21.1	24.8	28.6	32.3	31.0
85°	0.0	1.2	3.7	6.2	9.9	11.2	12.4	8.7	7.4	7.4	6.2
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	1.2	1.2
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°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1302.2	1301.0	1301.0	1297.3	1304.7	1301.0	1303.5	1302.2	1286.1	1298.5	1289.8
5°	1315.9	1324.6	1310.9	1308.4	1298.5	1302.2	1302.2	1289.8	1301.0	1299.8	1297.3
7.5°	1350.7	1335.8	1320.9	1306.0	1303.5	1299.8	1286.1	1281.1	1289.8	1279.9	1294.8
10°	1365.6	1368.0	1345.7	1325.8	1307.2	1281.1	1262.5	1251.3	1237.7	1252.6	1261.3
12.5°	1433.8	1409.0	1370.5	1339.5	1276.2	1250.1	1231.5	1226.5	1250.1	1255.1	1246.4
15°	1457.4	1453.7	1404.0	1334.5	1268.7	1237.7	1241.4	1231.5	1234.0	1221.5	1224.0
17.5°	1505.8	1463.6	1405.3	1318.4	1267.5	1260.0	1237.7	1198.0	1175.6	1165.7	1174.4
20°	1559.2	1518.2	1433.8	1324.6	1278.7	1258.8	1185.5	1137.1	1091.2	1066.4	1067.6
22.5°	1606.4	1555.5	1421.4	1327.1	1288.6	1206.7	1118.5	1022.9	965.8	927.3	928.6
25°	1663.5	1591.5	1426.4	1332.0	1262.5	1123.5	996.9	903.7	835.5	809.4	818.1
27.5°	1695.8	1613.8	1453.7	1343.2	1194.2	1005.5	869.0	782.1	742.4	730.0	728.7
30°	1792.6	1663.5	1487.2	1320.9	1080.0	878.9	752.3	698.9	660.4	649.3	651.7
32.5°	1936.6	1754.1	1530.7	1262.5	963.3	766.0	676.6	636.8	600.8	579.7	577.3
35°	2057.0	1909.3	1576.6	1171.9	828.0	679.1	623.2	573.5	518.9	495.3	489.1
37.5°	2286.7	2084.3	1566.7	1035.3	698.9	614.5	566.1	505.3	458.1	425.8	422.1
40°	2592.1	2289.2	1518.2	869.0	603.3	557.4	505.3	446.9	388.6	361.3	358.8
42.5°	2963.2	2539.9	1430.1	700.2	507.7	500.3	453.1	386.1	333.9	314.1	315.3
45°	3264.9	2754.7	1340.7	562.4	437.0	444.4	403.5	340.1	304.1	288.0	288.0
47.5°	3533.1	2899.9	1243.9	464.3	371.2	388.6	352.6	315.3	284.3	271.9	269.4
50°	3791.3	3047.7	1147.1	376.1	316.6	333.9	330.2	300.4	275.6	260.7	261.9
52.5°	3952.7	3071.3	1024.2	307.9	276.8	296.7	309.1	281.8	254.5	245.8	243.3
55°	3755.3	2767.1	794.5	253.2	234.6	260.7	284.3	253.2	232.1	217.2	216.0
56°	3489.6	2474.1	664.2	233.4	222.2	250.8	275.6	242.1	218.5	209.8	203.6
57.5°	2954.6	2024.7	490.4	207.3	206.1	233.4	261.9	230.9	203.6	196.1	196.1
60°	1842.3	1139.6	296.7	173.8	178.8	207.3	235.9	206.1	181.2	181.2	185.0
62.5°	839.2	474.2	180.0	147.7	153.9	178.8	209.8	186.2	172.6	186.2	188.7
65°	285.5	204.8	130.3	117.9	121.7	147.7	180.0	188.7	187.5	196.1	201.1
67.5°	160.1	131.6	109.2	98.1	95.6	109.2	147.7	188.7	181.2	177.5	180.0
70°	135.3	111.7	96.8	86.9	83.2	88.1	114.2	142.8	127.9	124.1	121.7
72.5°	109.2	93.1	84.4	78.2	67.0	57.1	52.1	54.6	60.8	64.6	70.8
75°	77.0	70.8	70.8	63.3	48.4	36.0	28.6	23.6	16.1	11.2	12.4
77.5°	43.4	43.4	44.7	38.5	31.0	23.6	17.4	12.4	6.2	2.5	1.2
80°	29.8	32.3	34.8	31.0	26.1	21.1	14.9	8.7	3.7	0.0	0.0
82.5°	29.8	33.5	36.0	31.0	26.1	19.9	14.9	8.7	3.7	1.2	0.0
85°	6.2	7.4	8.7	9.9	14.9	14.9	11.2	7.4	3.7	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)