

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: P527310

Luminaire Tested: **GALN-SA2B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9989 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

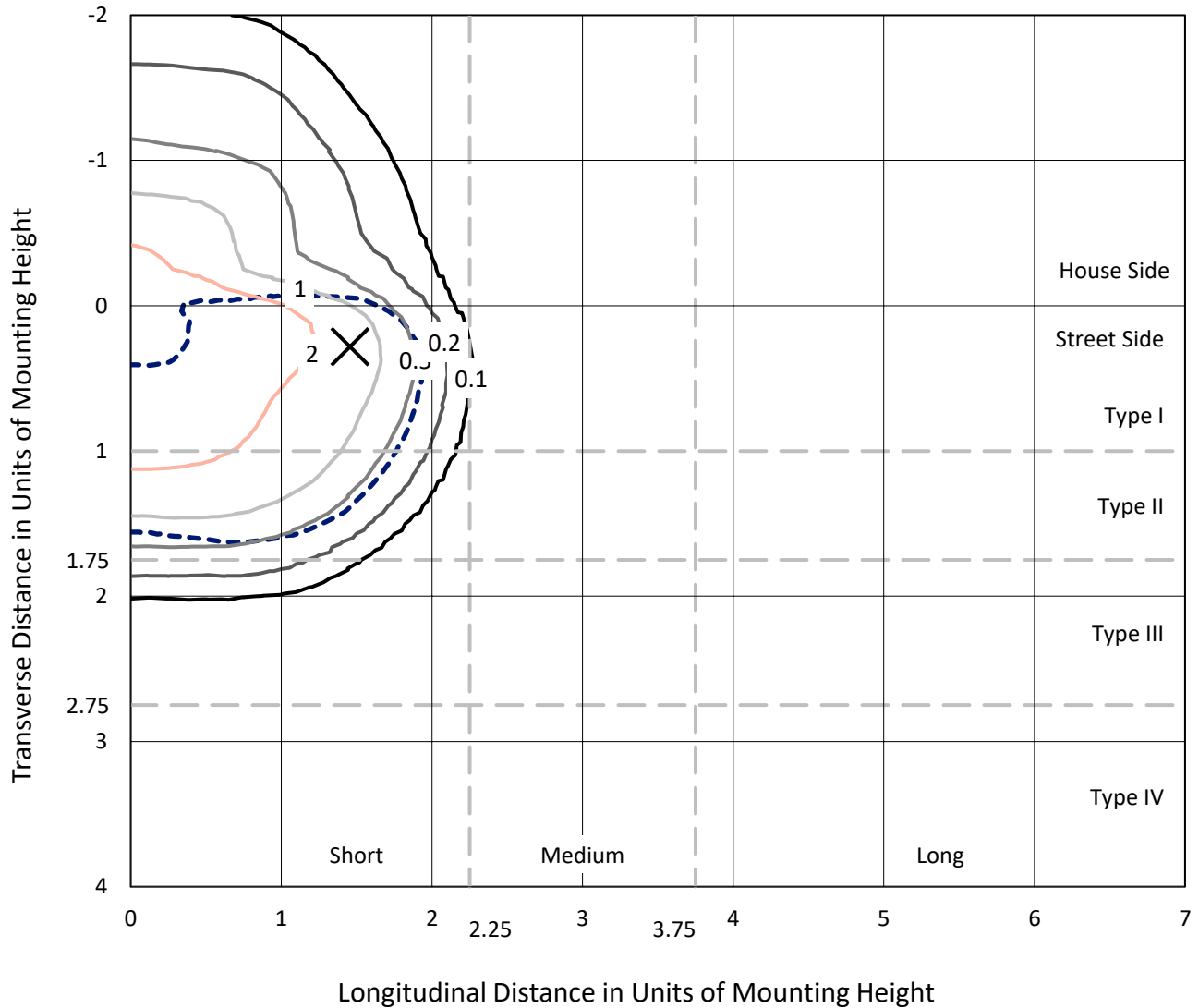
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

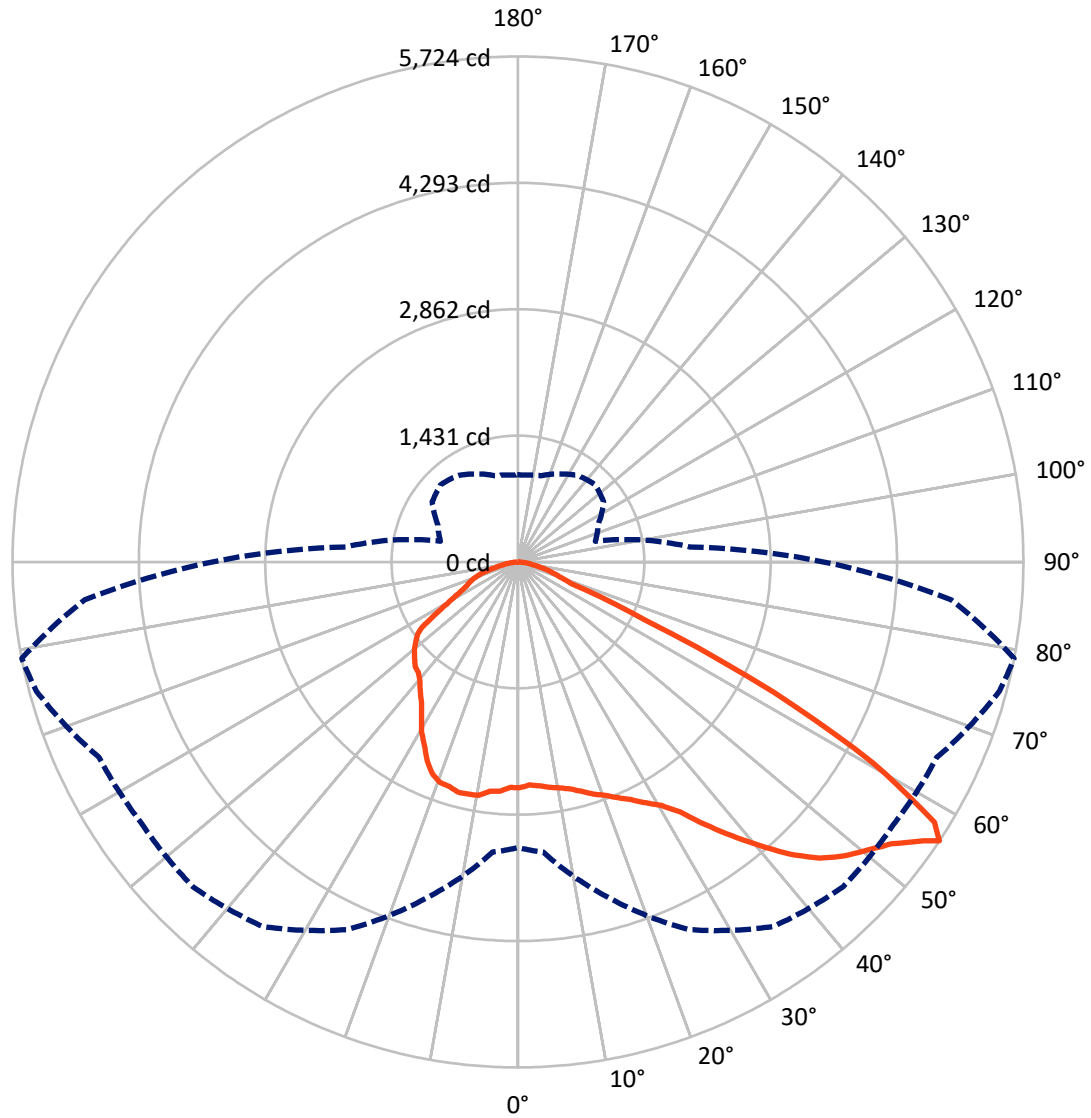
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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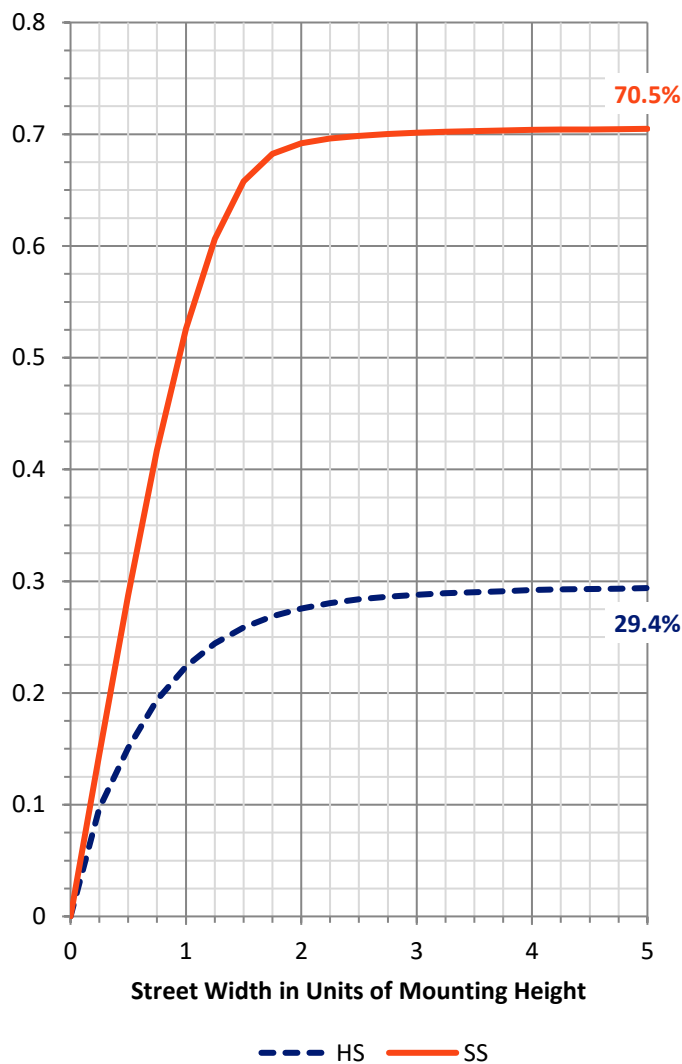
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2950.0	0.0	2950.0
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	7039.0	0.0	7039.0
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	9989.0	0.0	9989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	2.3
10°-20°	635.9	6.4
20°-30°	1088.0	10.9
30°-40°	1667.4	16.7
40°-50°	2253.5	22.6
50°-60°	2588.3	25.9
60°-70°	1179.8	11.8
70°-80°	290.9	2.9
80°-90°	52.9	0.5
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°	9989.0	100.0
0°-180°	9989.0	100.0

**Coefficient of Utilization**



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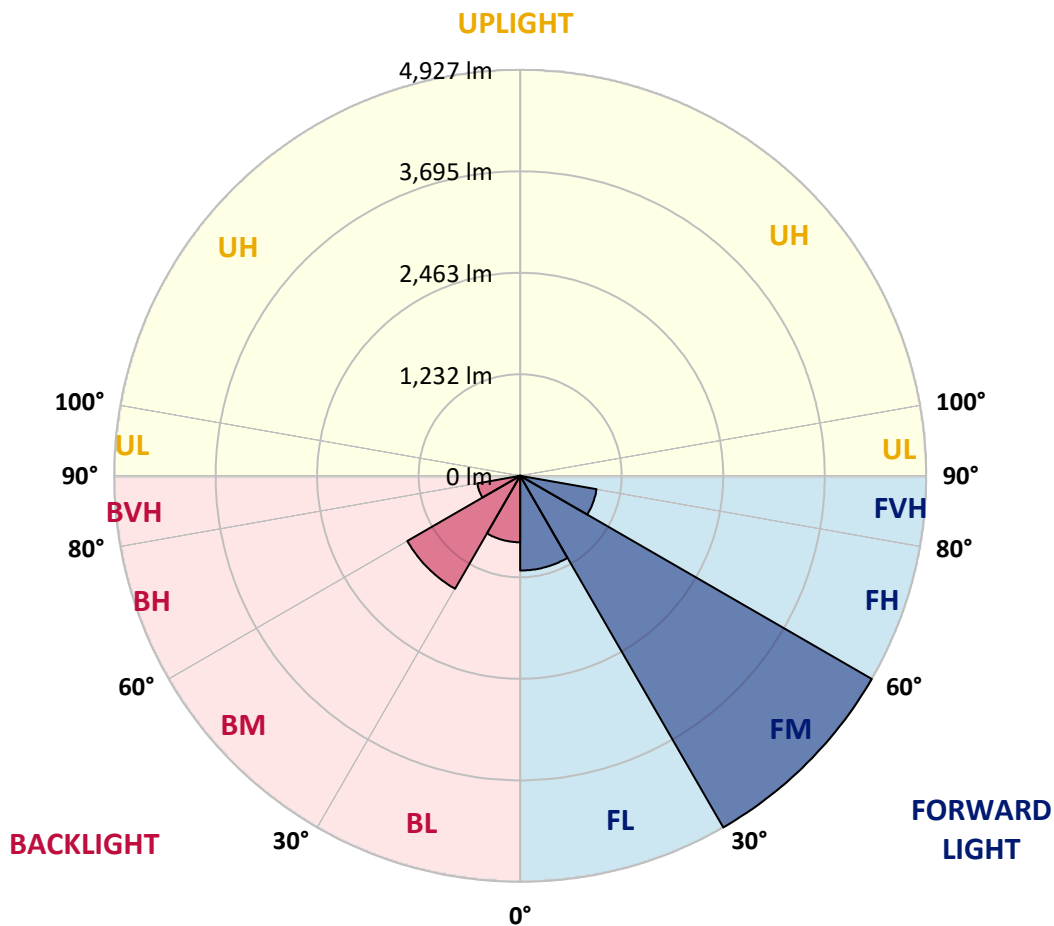
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.3	11.5			
FM (30°-60°)	4926.9	49.3			
FH (60°-80°)	941.7	9.4			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	806.9	8.1	B2/1000		
BM (30°-60°)	1582.3	15.8	B2/2500		
BH (60°-80°)	528.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8
2.5°	2431.4	2425.1	2440.1	2451.3	2465.0	2482.4	2491.1	2496.1	2539.6	2528.4	2562.0
5°	2379.1	2362.9	2374.1	2382.8	2406.5	2427.6	2451.3	2488.6	2528.4	2545.8	2586.9
7.5°	2333.1	2324.3	2321.9	2328.1	2360.4	2387.8	2428.9	2483.6	2548.3	2576.9	2600.6
10°	2257.2	2244.7	2263.4	2304.4	2313.2	2370.4	2417.7	2496.1	2552.1	2601.8	2671.5
12.5°	2223.6	2211.1	2214.9	2238.5	2299.5	2354.2	2410.2	2498.6	2616.8	2636.7	2730.0
15°	2277.1	2264.6	2268.4	2262.1	2320.6	2349.2	2437.6	2548.3	2661.6	2695.2	2794.7
17.5°	2399.0	2400.3	2384.1	2370.4	2356.7	2417.7	2478.6	2578.2	2679.0	2763.6	2838.2
20°	2631.7	2590.6	2558.3	2481.1	2460.0	2486.1	2563.3	2659.1	2749.9	2819.6	2904.2
22.5°	2810.9	2814.6	2768.6	2641.6	2595.6	2606.8	2672.8	2751.1	2850.7	2900.5	2997.5
25°	3070.9	3044.8	2995.0	2894.2	2791.0	2799.7	2848.2	2919.1	2946.5	2981.3	3087.1
27.5°	3308.6	3316.1	3217.8	3123.2	2995.0	2970.1	3057.2	3069.7	3023.6	3089.6	3125.7
30°	3550.0	3543.8	3479.1	3368.3	3242.6	3247.6	3286.2	3225.2	3161.8	3197.8	3222.7
32.5°	3800.1	3729.2	3726.7	3627.1	3531.3	3485.3	3438.0	3467.9	3369.6	3377.0	3353.4
35°	4000.4	4010.4	3953.1	3882.2	3834.9	3754.0	3624.6	3678.1	3659.5	3650.8	3548.7
37.5°	4146.0	4107.4	4136.0	4112.4	4067.6	3966.8	3832.4	3883.5	3892.2	3934.5	3816.3
40°	4265.5	4249.3	4325.2	4337.6	4306.5	4088.8	3847.4	3999.2	4129.8	4221.9	4081.3
42.5°	4322.7	4357.5	4437.2	4533.0	4463.3	4230.6	3924.5	4087.5	4378.7	4524.3	4332.6
45°	4399.8	4355.0	4473.3	4648.7	4649.9	4350.1	3999.2	4207.0	4572.8	4784.3	4504.4
47.5°	4321.4	4343.8	4465.8	4688.5	4745.8	4475.7	4200.8	4376.2	4786.8	4974.7	4663.6
50°	4146.0	4190.8	4413.5	4645.0	4817.9	4608.9	4432.2	4559.1	4984.7	5127.8	4689.8
52.5°	3963.1	3988.0	4336.4	4678.6	4850.3	4780.6	4742.0	4811.7	5226.1	5300.7	4722.1
55°	3465.4	3583.6	4081.3	4663.6	5008.3	5090.4	5060.6	5162.6	5499.8	5574.5	4898.8
56°	3235.2	3297.4	3928.3	4594.0	5039.4	5203.7	5188.7	5234.8	5645.4	5723.8	4926.2
57.5°	2809.6	2814.6	3349.7	4285.4	4922.4	5237.3	5222.3	5258.4	5616.8	5563.3	4686.0
60°	1758.2	1835.3	2279.6	3296.1	4185.8	4859.0	4943.6	4653.7	4735.8	4622.6	3645.8
62.5°	910.8	899.6	1194.5	1927.4	2778.5	3479.1	3557.4	3543.8	3416.8	3251.4	2381.6
65°	454.2	456.7	624.6	954.4	1423.5	1821.7	2040.6	2064.3	1727.1	1589.0	1129.8
67.5°	329.7	342.2	449.2	583.6	670.7	750.3	919.5	902.1	683.1	649.5	602.2
70°	256.3	267.5	364.6	445.5	404.4	404.4	440.5	455.4	486.5	500.2	516.4
72.5°	186.6	195.4	278.7	307.3	265.0	284.9	329.7	364.6	396.9	401.9	420.6
75°	128.2	135.6	182.9	169.2	159.3	196.6	241.4	273.7	297.4	309.8	321.0
77.5°	83.4	85.9	104.5	88.3	102.0	126.9	156.8	184.2	207.8	217.8	220.2
80°	37.3	41.1	44.8	56.0	70.9	90.8	112.0	134.4	149.3	153.0	160.5
82.5°	21.2	21.2	27.4	39.8	52.3	65.9	80.9	97.1	114.5	118.2	117.0
85°	11.2	11.2	16.2	23.6	32.4	38.6	37.3	38.6	41.1	47.3	46.0
87.5°	3.7	3.7	5.0	5.0	6.2	7.5	6.2	8.7	11.2	11.2	11.2
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°	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8	2555.8
2.5°	2552.1	2563.3	2548.3	2580.7	2580.7	2574.5	2543.3	2553.3	2560.8	2560.8	2567.0
5°	2600.6	2596.9	2606.8	2568.2	2544.6	2535.9	2484.9	2460.0	2438.8	2437.6	2418.9
7.5°	2628.0	2618.0	2614.3	2585.7	2481.1	2417.7	2308.2	2244.7	2231.0	2182.5	2201.2
10°	2671.5	2690.2	2671.5	2516.0	2370.4	2224.8	2117.8	2019.5	1980.9	1949.8	1931.2
12.5°	2761.1	2752.4	2644.1	2433.8	2229.8	2056.8	1897.6	1794.3	1755.7	1728.3	1725.8
15°	2837.0	2793.5	2628.0	2304.4	2010.8	1826.6	1696.0	1622.6	1605.1	1607.6	1618.8
17.5°	2863.1	2833.3	2543.3	2170.1	1847.8	1631.3	1570.3	1559.1	1575.3	1593.9	1598.9
20°	2904.2	2856.9	2508.5	1987.1	1646.2	1509.3	1505.6	1545.4	1575.3	1602.7	1606.4
22.5°	2990.0	2870.6	2395.3	1814.2	1508.1	1473.2	1509.3	1542.9	1589.0	1611.4	1591.5
25°	3014.9	2840.7	2236.0	1606.4	1421.0	1450.9	1489.4	1535.5	1567.8	1580.3	1589.0
27.5°	3036.1	2794.7	2020.7	1468.3	1393.6	1449.6	1489.4	1528.0	1545.4	1556.6	1566.6
30°	3095.8	2781.0	1834.1	1376.2	1376.2	1424.7	1475.7	1485.7	1509.3	1523.0	1540.4
32.5°	3125.7	2686.4	1642.5	1317.7	1358.8	1437.2	1440.9	1459.6	1460.8	1472.0	1453.3
35°	3204.1	2619.2	1464.5	1275.4	1366.2	1424.7	1443.4	1432.2	1371.2	1341.4	1347.6
37.5°	3261.3	2585.7	1336.4	1270.4	1367.5	1438.4	1448.4	1363.8	1300.3	1250.5	1263.0
40°	3415.6	2502.3	1239.3	1261.7	1378.7	1453.3	1426.0	1333.9	1219.4	1168.4	1159.7
42.5°	3533.8	2442.6	1178.4	1251.8	1387.4	1474.5	1414.8	1274.2	1157.2	1109.9	1122.4
45°	3670.7	2428.9	1146.0	1254.3	1402.3	1485.7	1401.1	1228.1	1103.7	1085.0	1081.3
47.5°	3719.2	2330.6	1111.2	1233.1	1398.6	1482.0	1355.0	1193.3	1083.8	1086.3	1096.2
50°	3638.3	2229.8	1085.0	1189.5	1373.7	1448.4	1282.9	1147.2	1072.6	1103.7	1121.1
52.5°	3535.1	2126.5	1031.5	1131.1	1322.7	1396.1	1249.3	1144.8	1061.4	1051.4	1055.2
55°	3566.2	2041.9	956.9	1051.4	1240.6	1299.0	1211.9	1121.1	1034.0	996.7	1009.1
56°	3465.4	1954.8	908.3	1001.7	1184.6	1236.8	1193.3	1100.0	1011.6	986.7	986.7
57.5°	3180.4	1662.4	844.9	922.0	1066.4	1128.6	1157.2	1087.5	986.7	943.2	944.4
60°	2345.5	1182.1	757.8	812.5	883.5	933.2	1066.4	1052.7	924.5	894.7	883.5
62.5°	1445.9	863.5	695.6	716.7	752.8	793.9	930.7	953.1	858.6	826.2	818.7
65°	810.0	660.7	648.3	657.0	674.4	695.6	772.7	822.5	757.8	708.0	705.5
67.5°	592.3	591.0	601.0	608.5	615.9	615.9	634.6	654.5	645.8	606.0	602.2
70°	526.3	530.1	537.5	538.8	541.3	532.6	517.6	511.4	521.4	496.5	491.5
72.5°	434.3	446.7	455.4	456.7	443.0	431.8	411.9	390.7	383.2	378.3	377.0
75°	333.5	342.2	345.9	344.7	339.7	323.5	299.9	278.7	265.0	250.1	257.6
77.5°	225.2	237.7	243.9	243.9	236.4	211.5	200.3	184.2	170.5	154.3	156.8
80°	158.0	166.7	176.7	175.4	163.0	150.6	134.4	119.5	108.3	95.8	94.6
82.5°	118.2	123.2	128.2	125.7	117.0	104.5	93.3	79.6	67.2	58.5	58.5
85°	42.3	46.0	56.0	58.5	63.5	63.5	53.5	44.8	36.1	29.9	29.9
87.5°	12.4	12.4	13.7	13.7	12.4	13.7	11.2	12.4	13.7	8.7	8.7
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)