

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: P528187

Luminaire Tested: **GALN-SA3B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9126 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

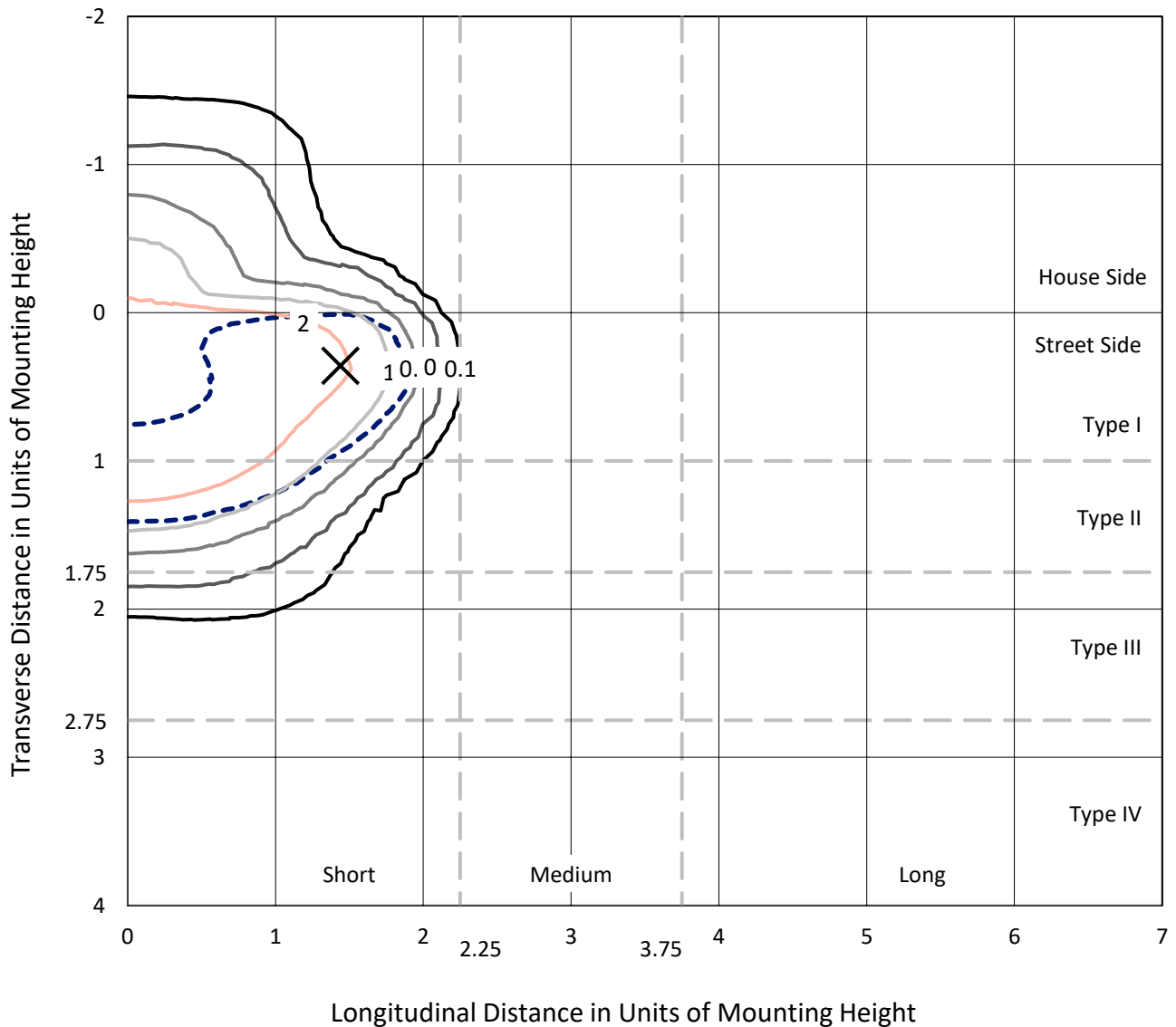
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

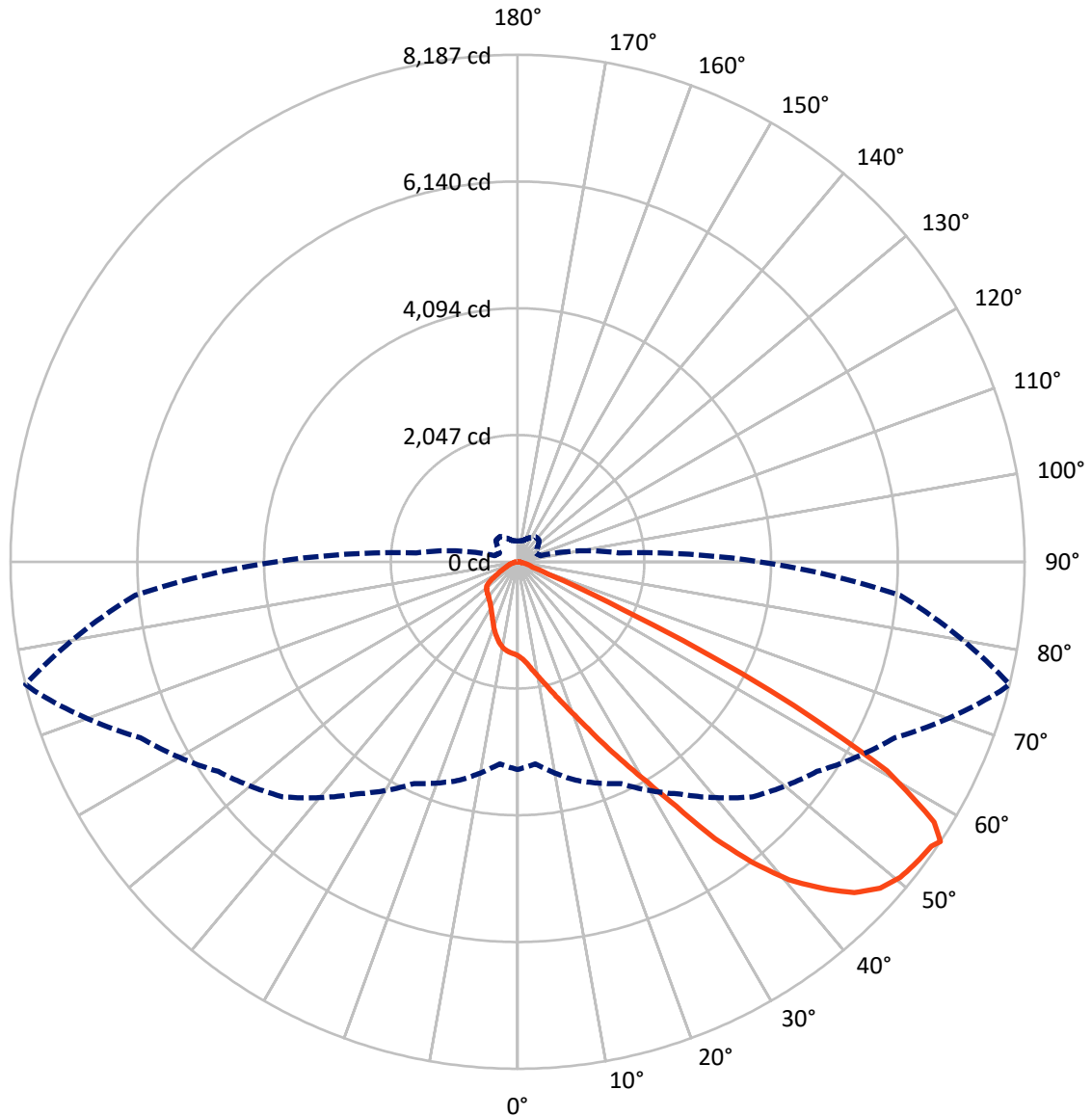
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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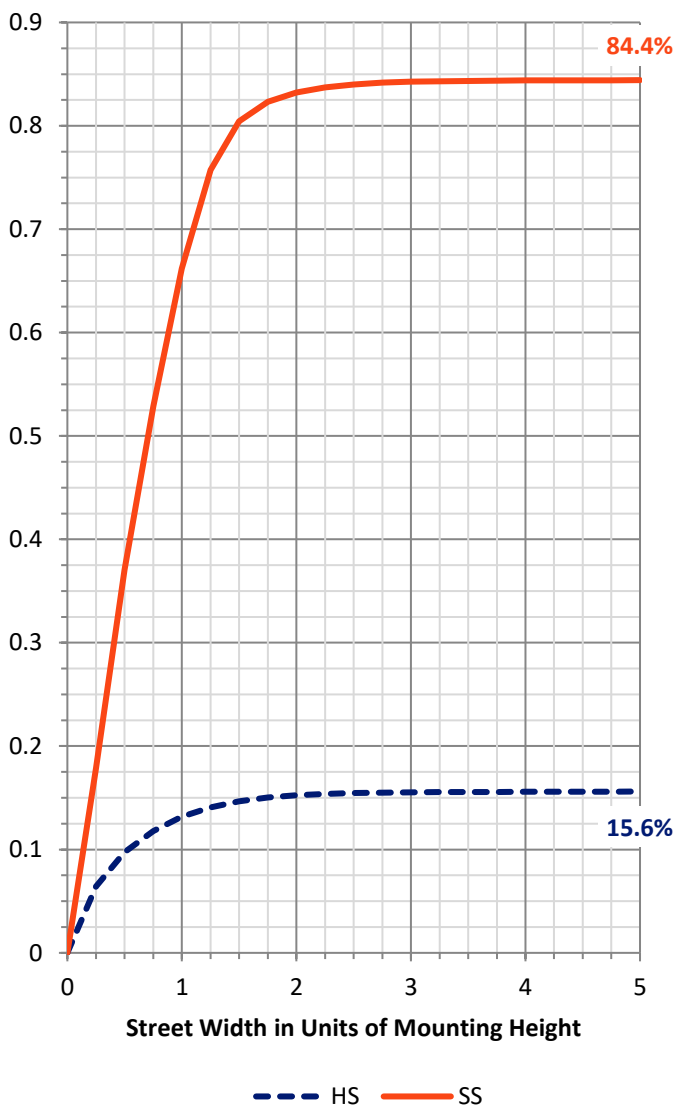
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1433.7	0.0	1433.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7692.4	0.0	7692.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9126.0	0.0	9126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	1.7
10°-20°	491.6	5.4
20°-30°	891.4	9.8
30°-40°	1537.3	16.8
40°-50°	2497.3	27.4
50°-60°	2632.3	28.8
60°-70°	804.3	8.8
70°-80°	103.1	1.1
80°-90°	15.7	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°	9126.0	100.0
0°-180°	9126.0	100.0

**Coefficient of Utilization**



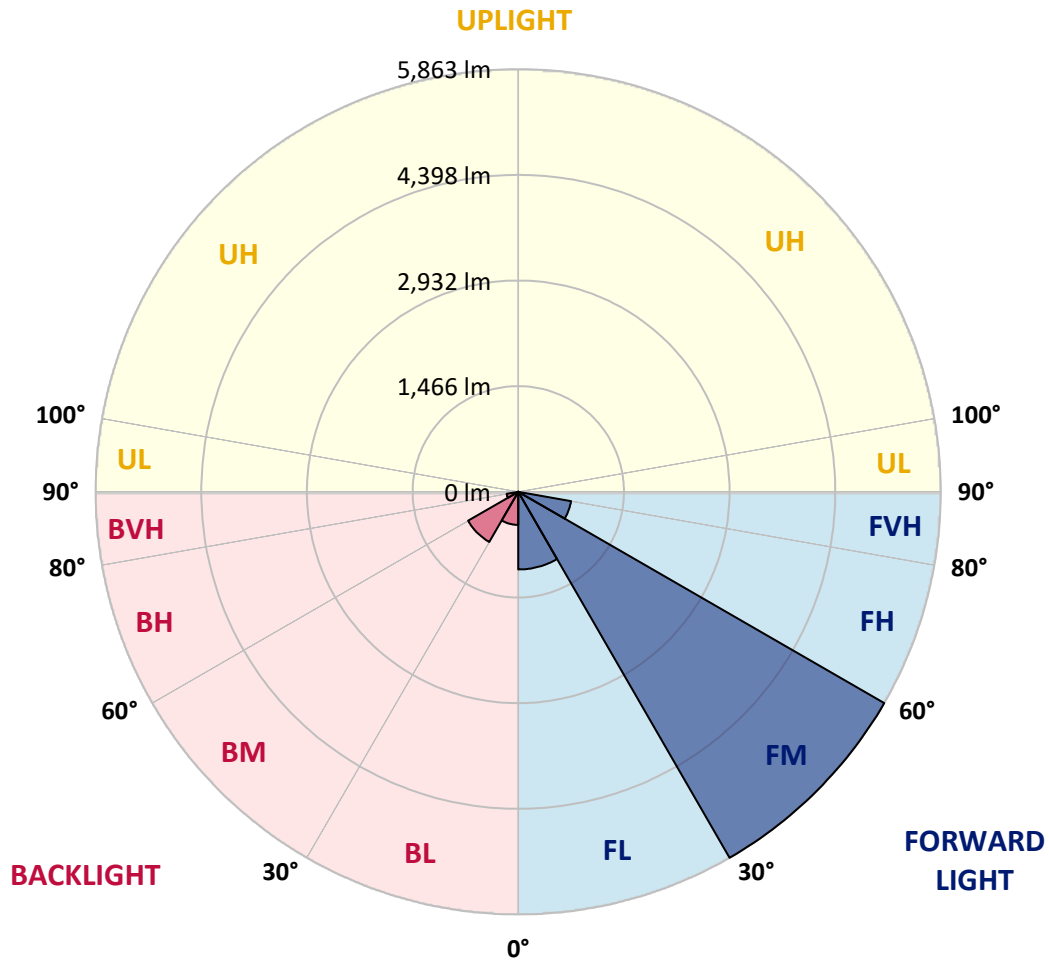
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.4	11.8			
FM (30°-60°)	5863.4	64.2			
FH (60°-80°)	743.8	8.2			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	458.6	5.0	B1/500		
BM (30°-60°)	803.5	8.8	B1/1000		
BH (60°-80°)	163.6	1.8	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0
2.5°	1749.5	1709.1	1710.8	1707.4	1702.4	1683.9	1628.4	1620.0	1583.0	1572.9	1539.2
5°	1959.8	1924.4	1944.6	1914.4	1885.8	1868.9	1778.1	1736.0	1677.2	1655.3	1608.2
7.5°	2091.0	2074.2	2067.4	2069.1	2042.2	2000.1	1959.8	1867.3	1788.2	1771.4	1672.1
10°	2154.9	2144.8	2154.9	2149.9	2161.6	2166.7	2096.0	2040.5	1924.4	1895.9	1741.1
12.5°	2170.1	2190.2	2198.6	2220.5	2249.1	2297.9	2292.9	2217.2	2062.4	2043.9	1847.1
15°	2207.1	2223.9	2215.5	2250.8	2304.6	2387.1	2430.8	2419.0	2252.5	2218.8	1969.9
17.5°	2240.7	2210.4	2239.0	2309.7	2363.5	2489.7	2595.7	2644.4	2459.4	2420.7	2082.6
20°	2286.1	2277.7	2272.7	2308.0	2403.9	2572.1	2782.4	2871.5	2691.5	2651.2	2244.1
22.5°	2424.1	2425.7	2422.4	2370.2	2439.2	2629.3	2945.6	3165.9	2969.1	2935.5	2427.4
25°	2605.7	2583.9	2567.1	2525.0	2516.6	2681.4	3110.4	3525.9	3302.2	3278.6	2625.9
27.5°	2797.5	2797.5	2747.1	2708.4	2654.5	2811.0	3261.8	3875.8	3704.2	3672.3	2799.2
30°	3006.1	3017.9	3011.2	2928.7	2895.1	2952.3	3416.6	4323.3	4165.2	4124.8	3085.2
32.5°	3314.0	3288.7	3317.3	3248.3	3149.1	3199.6	3660.5	4723.6	4764.0	4706.8	3460.3
35°	3721.1	3705.9	3687.4	3574.7	3456.9	3497.3	4005.3	5216.5	5516.0	5487.4	3838.8
37.5°	4086.1	4077.7	4062.5	3985.2	3848.9	3897.7	4397.3	5729.6	6249.4	6155.2	4373.7
40°	4469.6	4515.1	4466.3	4397.3	4272.8	4380.5	4858.2	6034.1	6866.8	6752.4	4782.5
42.5°	4989.4	4954.1	4976.0	4849.8	4782.5	4900.3	5320.8	6338.6	7346.2	7210.0	5216.5
45°	5542.9	5544.6	5485.7	5445.3	5270.4	5398.2	5605.1	6506.8	7728.1	7622.1	5544.6
47.5°	5897.8	5896.1	5960.1	6024.0	5844.0	5717.8	5798.6	6666.6	7924.9	7876.1	5664.0
50°	5842.3	5859.1	5941.6	6180.4	6274.6	6104.7	5980.3	6619.5	8014.1	8009.0	5766.6
52.5°	5082.0	5137.5	5275.4	5620.3	6094.6	6304.9	6170.3	6707.0	8057.8	8066.2	5919.7
55°	3869.1	3899.4	4161.8	4580.7	5105.5	5825.5	6094.6	6775.9	8091.4	8106.6	6104.7
56°	3356.0	3275.3	3653.8	3951.5	4579.0	5366.3	5902.9	6722.1	8071.2	8187.3	6197.3
57.5°	2533.4	2479.6	2785.7	3157.5	3761.4	4592.4	5307.4	6468.1	7935.0	7933.3	6064.4
60°	1540.9	1487.1	1722.6	1941.3	2279.4	2827.8	3586.5	5150.9	6708.7	6850.0	4910.4
62.5°	916.8	950.4	1182.6	1315.5	1424.8	1482.0	1855.5	3061.6	4476.4	4577.3	3046.5
65°	610.6	622.4	797.4	1016.1	1064.8	847.8	755.3	1239.8	1941.3	1879.0	1256.6
67.5°	376.8	403.7	534.9	763.7	846.2	619.1	358.3	462.6	534.9	534.9	363.4
70°	228.8	242.2	356.6	519.8	580.4	398.7	260.7	260.7	257.4	252.3	217.0
72.5°	109.3	117.8	181.7	267.5	272.5	210.3	201.9	220.4	215.3	213.6	180.0
75°	47.1	50.5	63.9	84.1	95.9	89.2	122.8	158.1	163.2	158.1	129.5
77.5°	15.1	16.8	23.6	30.3	32.0	38.7	52.1	65.6	75.7	70.7	63.9
80°	1.7	3.4	6.7	15.1	23.6	30.3	38.7	43.7	48.8	48.8	45.4
82.5°	1.7	1.7	6.7	13.5	21.9	28.6	37.0	42.1	48.8	50.5	47.1
85°	0.0	1.7	5.0	11.8	18.5	18.5	16.8	16.8	11.8	11.8	11.8
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0	1519.0
2.5°	1532.5	1529.1	1483.7	1455.1	1440.0	1409.7	1391.2	1377.7	1367.6	1355.9	1357.5
5°	1552.7	1540.9	1465.2	1413.1	1350.8	1317.2	1288.6	1265.0	1249.9	1246.5	1239.8
7.5°	1609.9	1547.6	1433.2	1339.0	1260.0	1226.3	1201.1	1186.0	1192.7	1177.5	1189.3
10°	1653.6	1561.1	1394.6	1258.3	1179.2	1154.0	1140.5	1152.3	1169.1	1162.4	1154.0
12.5°	1707.4	1574.5	1332.3	1180.9	1106.9	1088.4	1111.9	1133.8	1167.5	1180.9	1164.1
15°	1768.0	1589.7	1253.2	1091.8	1044.7	1059.8	1100.2	1138.9	1172.5	1189.3	1199.4
17.5°	1842.0	1584.6	1175.9	1021.1	985.8	1029.5	1078.3	1113.6	1164.1	1189.3	1182.6
20°	1911.0	1567.8	1090.1	950.4	952.1	992.5	1032.9	1090.1	1117.0	1150.6	1138.9
22.5°	1976.6	1537.5	1000.9	901.7	901.7	963.9	984.1	1021.1	1044.7	1061.5	1059.8
25°	2069.1	1480.3	926.9	854.6	874.7	915.1	931.9	943.7	933.6	947.1	948.8
27.5°	2134.7	1421.5	866.3	812.5	849.5	879.8	874.7	868.0	844.5	826.0	837.7
30°	2205.4	1352.5	814.2	783.9	804.1	831.0	810.8	790.6	753.6	723.4	725.0
32.5°	2306.3	1320.5	768.8	750.3	777.2	780.5	758.7	728.4	691.4	662.8	661.1
35°	2494.7	1300.3	730.1	728.4	733.4	735.1	713.3	676.2	661.1	637.6	646.0
37.5°	2683.1	1290.3	703.2	696.4	694.8	696.4	671.2	635.9	664.5	662.8	666.2
40°	2923.7	1335.7	664.5	656.1	657.7	657.7	625.8	615.7	666.2	671.2	672.9
42.5°	3167.6	1392.9	639.2	612.3	619.1	619.1	602.2	590.5	625.8	592.1	587.1
45°	3379.6	1477.0	612.3	568.6	585.4	593.8	588.8	568.6	546.7	489.5	489.5
47.5°	3448.5	1551.0	580.4	526.5	540.0	577.0	561.9	519.8	481.1	434.0	430.6
50°	3569.7	1631.7	555.1	477.7	506.3	551.8	536.6	494.6	450.8	417.2	418.9
52.5°	3694.1	1724.3	508.0	420.6	455.9	531.6	531.6	484.5	417.2	393.6	390.3
55°	3880.9	1720.9	423.9	344.9	407.1	501.3	509.7	434.0	373.5	354.9	354.9
56°	3907.8	1643.5	381.9	323.0	385.2	492.9	494.6	420.6	356.6	336.4	336.4
57.5°	3705.9	1483.7	334.8	296.1	358.3	477.7	479.4	408.8	343.2	314.6	311.2
60°	2851.3	1004.3	279.2	264.1	324.7	430.6	439.1	371.8	301.1	279.2	277.6
62.5°	1609.9	556.8	245.6	238.9	279.2	366.7	392.0	324.7	255.7	243.9	247.3
65°	735.1	306.2	206.9	193.5	225.4	282.6	316.3	267.5	210.3	196.8	196.8
67.5°	269.2	208.6	176.6	153.1	158.1	183.4	205.2	173.3	139.6	119.4	124.5
70°	191.8	174.9	154.8	132.9	122.8	119.4	117.8	97.6	69.0	53.8	57.2
72.5°	154.8	144.7	129.5	112.7	95.9	80.7	69.0	50.5	32.0	21.9	20.2
75°	111.0	106.0	94.2	80.7	67.3	57.2	47.1	32.0	16.8	8.4	8.4
77.5°	57.2	57.2	55.5	50.5	42.1	33.6	26.9	18.5	10.1	3.4	3.4
80°	43.7	47.1	48.8	43.7	38.7	30.3	21.9	13.5	6.7	1.7	1.7
82.5°	42.1	48.8	52.1	45.4	38.7	28.6	21.9	13.5	6.7	1.7	1.7
85°	10.1	10.1	15.1	16.8	21.9	23.6	18.5	11.8	5.0	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)