

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: P652244

Luminaire Tested: **GALN-SA2B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9807.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

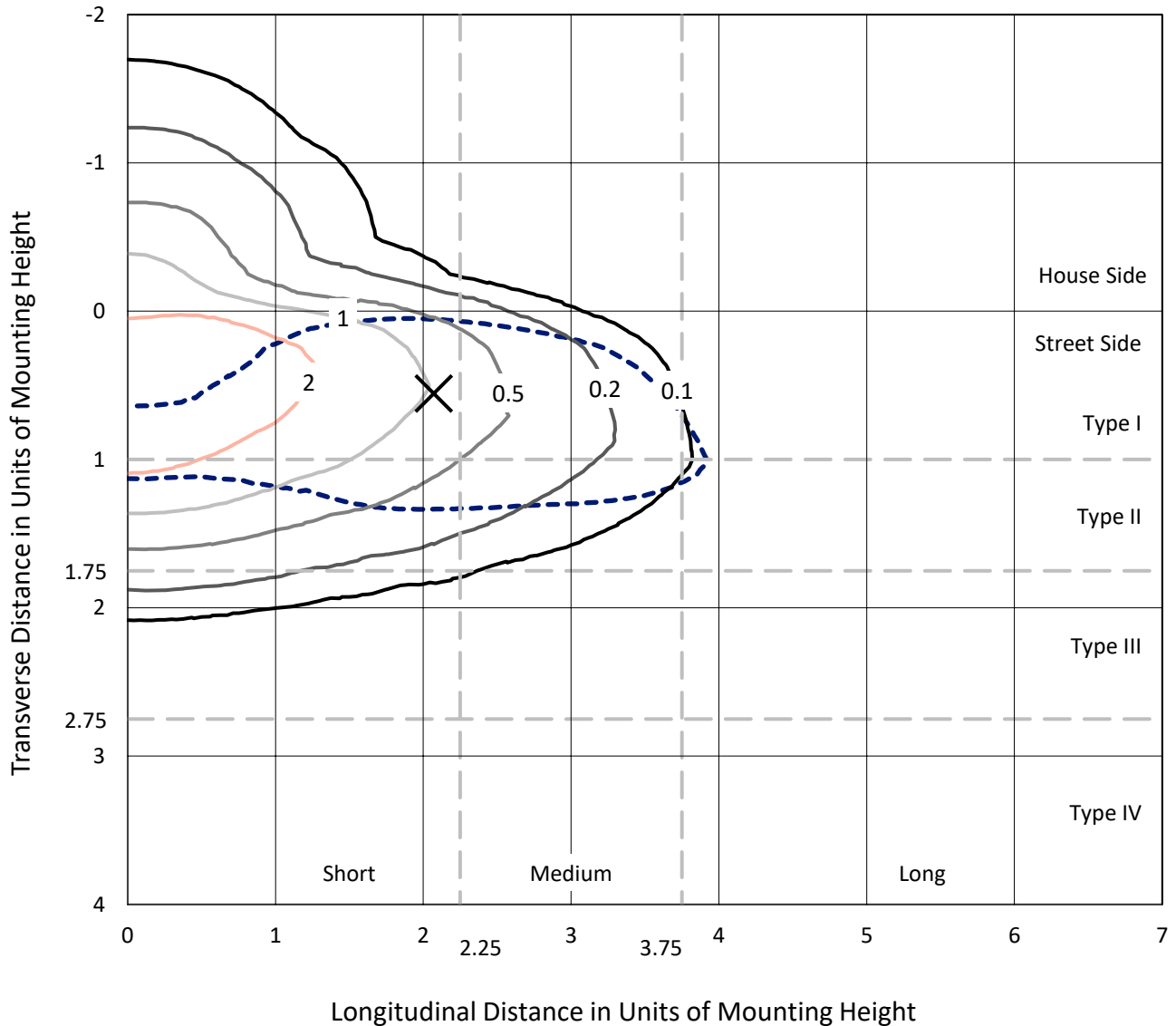
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

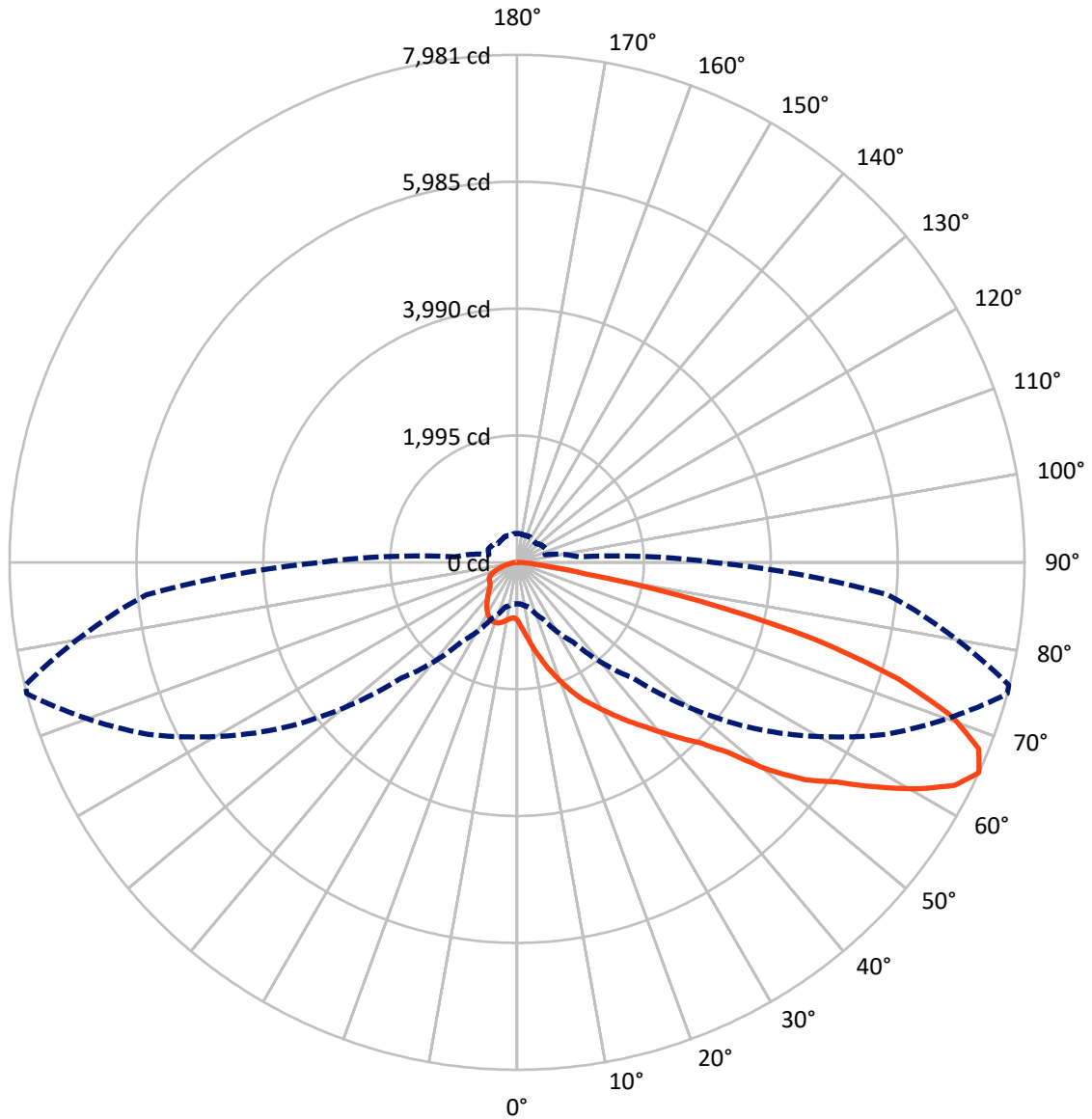
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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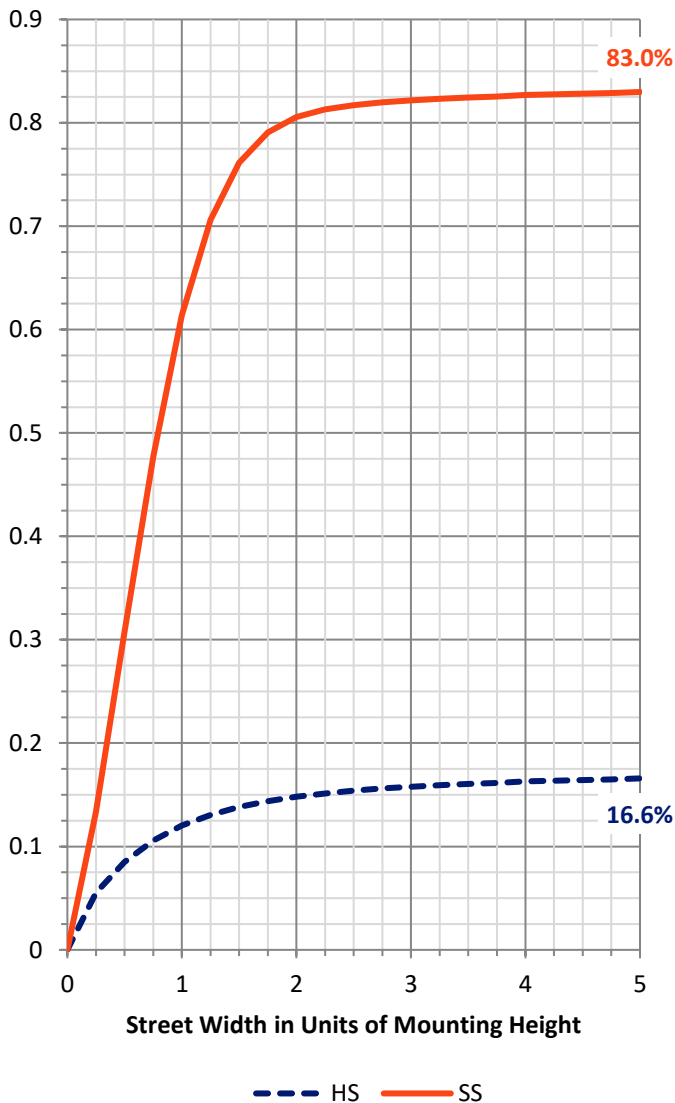
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.8	0.0	1648.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	8158.9	0.0	8158.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	9807.7	0.0	9807.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.1
10°-20°	433.7	4.4
20°-30°	837.7	8.5
30°-40°	1360.6	13.9
40°-50°	1871.7	19.1
50°-60°	2209.8	22.5
60°-70°	1936.2	19.7
70°-80°	924.3	9.4
80°-90°	123.0	1.3
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°	9807.7	100.0
0°-180°	9807.7	100.0

Coefficient of Utilization

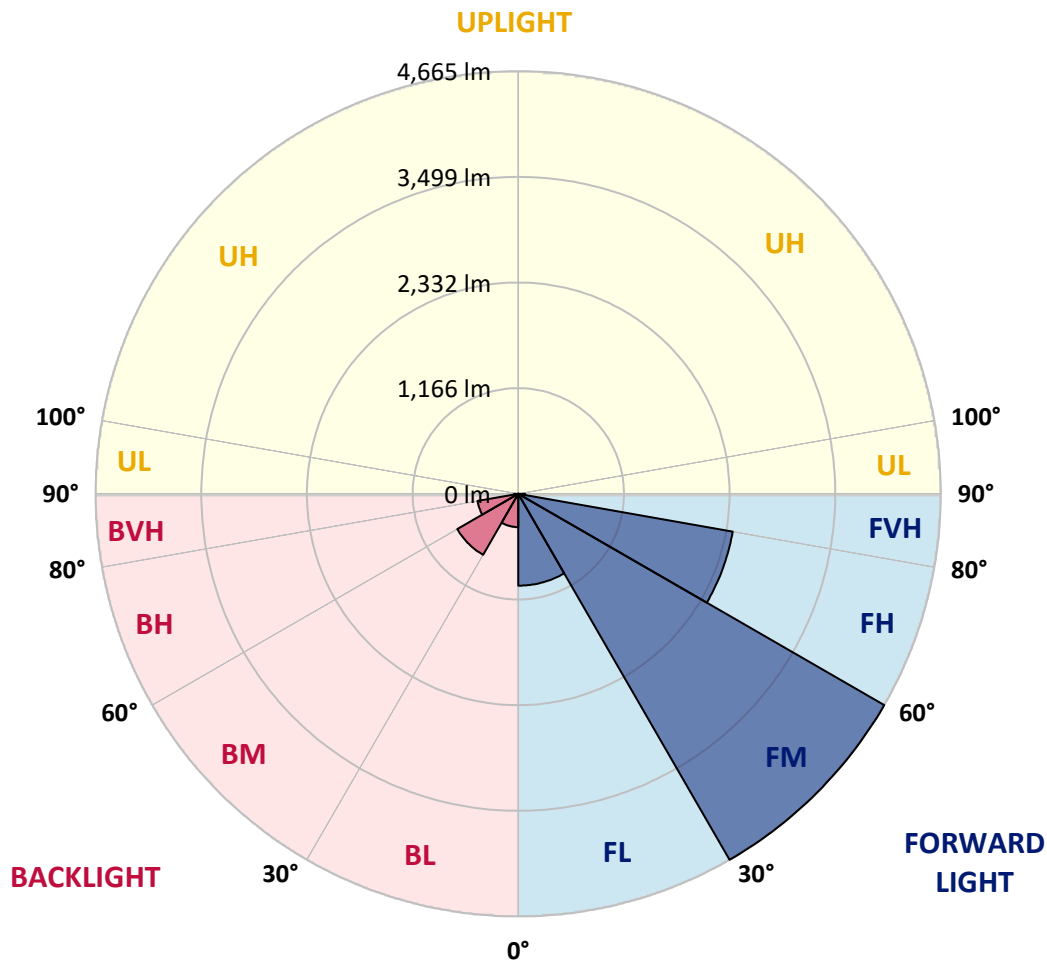


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.0	10.3			
FM (30°-60°)	4664.8	47.6			
FH (60°-80°)	2403.3	24.5			G2/5000
FVH (80°-90°)	76.9	0.8			G1/100
BL (0°-30°)	368.1	3.8	B1/500		
BM (30°-60°)	777.4	7.9	B1/1000		
BH (60°-80°)	457.2	4.7	B1/500		G1/500
BVH (80°-90°)	46.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2
2.5°	1210.8	1202.8	1194.3	1170.8	1145.9	1117.7	1077.2	1038.4	986.8	985.2	946.9
5°	1546.4	1541.1	1503.4	1481.5	1423.6	1346.4	1281.0	1179.3	1085.2	1074.0	999.5
7.5°	1855.0	1834.2	1819.8	1780.5	1723.0	1624.1	1497.5	1360.2	1202.8	1187.9	1064.5
10°	2087.4	2085.3	2077.9	2043.8	2000.7	1902.3	1761.9	1565.0	1351.7	1322.5	1143.2
12.5°	2261.4	2263.0	2262.0	2261.4	2230.6	2147.0	1994.9	1787.4	1502.3	1481.5	1234.2
15°	2375.7	2391.7	2398.1	2424.7	2427.4	2371.5	2240.7	2002.3	1672.0	1641.1	1332.1
17.5°	2451.3	2459.3	2489.1	2534.3	2571.0	2560.9	2444.4	2201.3	1845.4	1793.8	1433.7
20°	2523.7	2537.5	2560.3	2622.1	2687.0	2716.8	2634.9	2405.0	2017.2	1984.3	1545.9
22.5°	2674.2	2693.9	2701.9	2733.2	2788.6	2841.2	2804.0	2600.3	2205.5	2160.9	1665.1
25°	2929.0	2949.8	2927.4	2920.0	2938.0	2964.1	2956.1	2784.3	2383.2	2319.4	1777.9
27.5°	3261.0	3263.7	3220.0	3178.5	3133.8	3120.5	3096.1	2947.6	2537.5	2484.3	1891.2
30°	3617.4	3604.6	3532.3	3457.3	3381.7	3307.2	3237.0	3105.1	2709.3	2648.1	2002.3
32.5°	3948.2	3941.3	3861.0	3744.6	3616.9	3546.7	3404.6	3264.2	2893.4	2834.3	2116.7
35°	4196.2	4206.3	4118.0	3990.8	3851.4	3789.2	3609.9	3431.2	3083.9	3019.4	2241.2
37.5°	4372.3	4366.9	4288.8	4178.6	4056.2	4002.0	3849.8	3613.7	3288.6	3226.9	2377.3
40°	4435.0	4431.8	4373.9	4293.6	4215.8	4196.7	4101.0	3810.5	3523.2	3450.9	2541.2
42.5°	4395.2	4402.0	4363.8	4341.9	4327.5	4341.4	4350.4	4068.5	3779.1	3712.6	2718.9
45°	4272.8	4269.1	4263.7	4299.4	4380.3	4471.2	4597.2	4312.1	4057.3	4004.2	2957.2
47.5°	4054.1	4080.7	4094.1	4192.5	4369.1	4584.5	4881.3	4638.8	4461.1	4414.8	3320.5
50°	3748.3	3769.5	3848.2	4023.3	4286.6	4627.1	5159.0	5172.9	5134.6	5047.9	3715.3
52.5°	3270.6	3303.5	3465.8	3786.5	4117.5	4609.5	5327.1	5630.9	5681.5	5616.5	4104.2
55°	2735.9	2782.2	2953.5	3374.3	3884.4	4513.7	5443.1	5896.3	6097.9	6037.9	4478.7
57.5°	2212.4	2261.4	2437.5	2844.9	3478.0	4302.1	5519.1	6192.1	6665.0	6586.9	4944.7
60°	1658.1	1709.2	1860.3	2280.0	2899.3	3888.2	5467.6	6448.5	7231.6	7198.0	5411.2
62.5°	1069.8	1126.2	1257.5	1605.0	2228.4	3322.7	5191.5	6590.0	7722.1	7681.6	5751.7
65°	651.7	658.1	730.4	996.4	1525.2	2572.6	4560.1	6402.3	7980.6	7968.4	5855.4
67.5°	421.3	431.4	464.4	596.9	914.4	1786.9	3646.2	5782.5	7829.5	7825.3	5641.0
70°	355.9	359.1	374.0	402.7	531.4	1083.6	2560.3	4794.6	7255.6	7255.6	5125.6
72.5°	318.2	322.4	327.7	336.7	379.3	613.9	1527.8	3732.3	6264.4	6306.0	4362.7
75°	288.9	287.8	291.0	292.6	323.4	401.1	790.0	2760.4	4846.3	4763.3	3159.4
77.5°	247.3	248.9	247.3	254.3	285.7	305.4	401.1	1852.3	2937.0	2829.5	1585.8
80°	203.2	205.9	208.6	212.8	244.1	231.9	240.9	844.2	1086.3	1063.4	490.0
82.5°	152.6	156.4	160.6	170.7	192.0	153.2	152.1	360.7	392.1	359.1	180.3
85°	61.7	72.9	110.1	120.3	120.8	84.0	93.6	150.5	160.1	156.4	70.7
87.5°	14.4	17.0	35.7	53.7	49.5	31.4	34.6	48.9	55.8	51.6	24.0
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°	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2	911.2
2.5°	929.4	910.7	878.8	854.4	836.8	821.3	811.8	805.9	803.8	803.2	803.8
5°	960.8	927.8	877.2	845.3	827.7	817.6	811.8	811.2	811.8	812.3	810.7
7.5°	1003.8	956.5	890.5	860.8	847.4	840.0	837.3	836.3	836.8	836.3	836.3
10°	1061.3	996.4	916.6	885.7	874.6	866.1	861.8	859.2	857.0	854.9	853.8
12.5°	1124.6	1040.6	944.8	915.0	899.0	885.7	876.2	869.3	864.5	859.7	858.6
15°	1195.3	1087.3	976.1	934.7	911.8	892.1	875.6	864.5	856.0	849.0	848.5
17.5°	1262.9	1131.5	997.4	943.7	910.2	882.5	860.8	845.3	834.7	825.6	824.5
20°	1335.3	1173.5	1007.0	937.9	894.2	860.8	832.0	813.4	801.1	791.0	789.4
22.5°	1408.1	1209.2	1005.9	919.2	866.6	827.2	796.9	777.2	762.9	752.7	749.0
25°	1477.8	1237.9	992.6	889.4	828.3	787.3	756.5	738.4	725.6	713.3	713.3
27.5°	1540.5	1254.9	967.7	853.3	788.9	745.8	721.3	704.8	693.2	685.2	680.4
30°	1602.3	1262.9	933.6	807.5	747.4	710.7	691.0	681.5	670.8	661.8	660.7
32.5°	1657.6	1261.3	891.0	762.9	708.0	682.0	674.0	666.6	655.4	642.6	639.4
35°	1711.4	1250.7	840.5	713.9	675.1	665.0	667.1	656.5	636.2	620.2	617.6
37.5°	1769.9	1231.5	785.2	674.0	647.4	657.0	662.3	638.9	605.9	580.9	575.1
40°	1837.4	1209.7	727.7	634.1	625.6	649.5	649.5	606.4	561.2	545.8	541.5
42.5°	1916.7	1191.6	679.9	600.6	607.5	631.4	628.8	563.4	544.7	536.7	534.6
45°	2042.2	1185.2	630.4	571.4	592.7	610.1	588.4	548.5	537.8	531.4	529.3
47.5°	2240.7	1192.7	586.8	549.5	575.6	588.9	543.1	538.3	530.9	521.8	520.8
50°	2424.7	1185.7	555.9	537.3	560.7	563.4	524.5	526.1	521.8	511.7	509.6
52.5°	2575.2	1163.9	536.2	530.9	547.9	518.6	507.0	512.8	511.2	498.5	496.4
55°	2740.7	1150.7	526.6	530.9	539.4	479.9	490.5	499.0	496.9	487.8	487.3
57.5°	2941.2	1153.3	519.7	532.5	530.9	460.2	474.0	484.1	483.6	480.9	480.9
60°	3146.6	1154.4	509.1	531.9	520.8	444.7	457.0	471.3	472.4	474.0	474.0
62.5°	3214.7	1108.1	488.4	522.4	498.5	429.8	441.0	460.7	459.6	463.9	464.4
65°	3087.6	979.8	457.5	500.6	469.7	419.2	428.7	446.8	441.0	452.2	454.3
67.5°	2810.4	810.7	409.7	461.2	437.8	408.1	420.8	427.7	417.1	438.8	439.4
70°	2429.0	633.0	348.9	405.4	401.7	396.3	414.4	403.8	388.9	415.5	410.2
72.5°	2031.1	483.6	278.8	331.4	353.2	378.8	403.3	372.9	352.1	360.1	350.5
75°	1525.7	357.5	224.0	259.6	294.2	353.7	393.1	335.6	303.8	296.3	294.2
77.5°	777.8	233.5	167.6	194.2	220.8	319.7	379.3	292.1	251.6	239.9	234.6
80°	277.7	145.2	118.1	134.1	148.9	275.0	331.4	241.5	195.2	193.1	195.2
82.5°	128.8	93.6	79.2	87.8	88.3	183.5	252.7	180.3	148.4	225.6	190.5
85°	55.3	46.8	44.7	43.6	40.5	81.9	142.0	96.8	151.0	67.5	62.2
87.5°	16.5	18.6	16.5	12.2	9.1	9.1	14.4	5.3	3.7	2.7	2.7
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)