

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: P317547

Luminaire Tested: **GLEON-SA3A-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10896 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

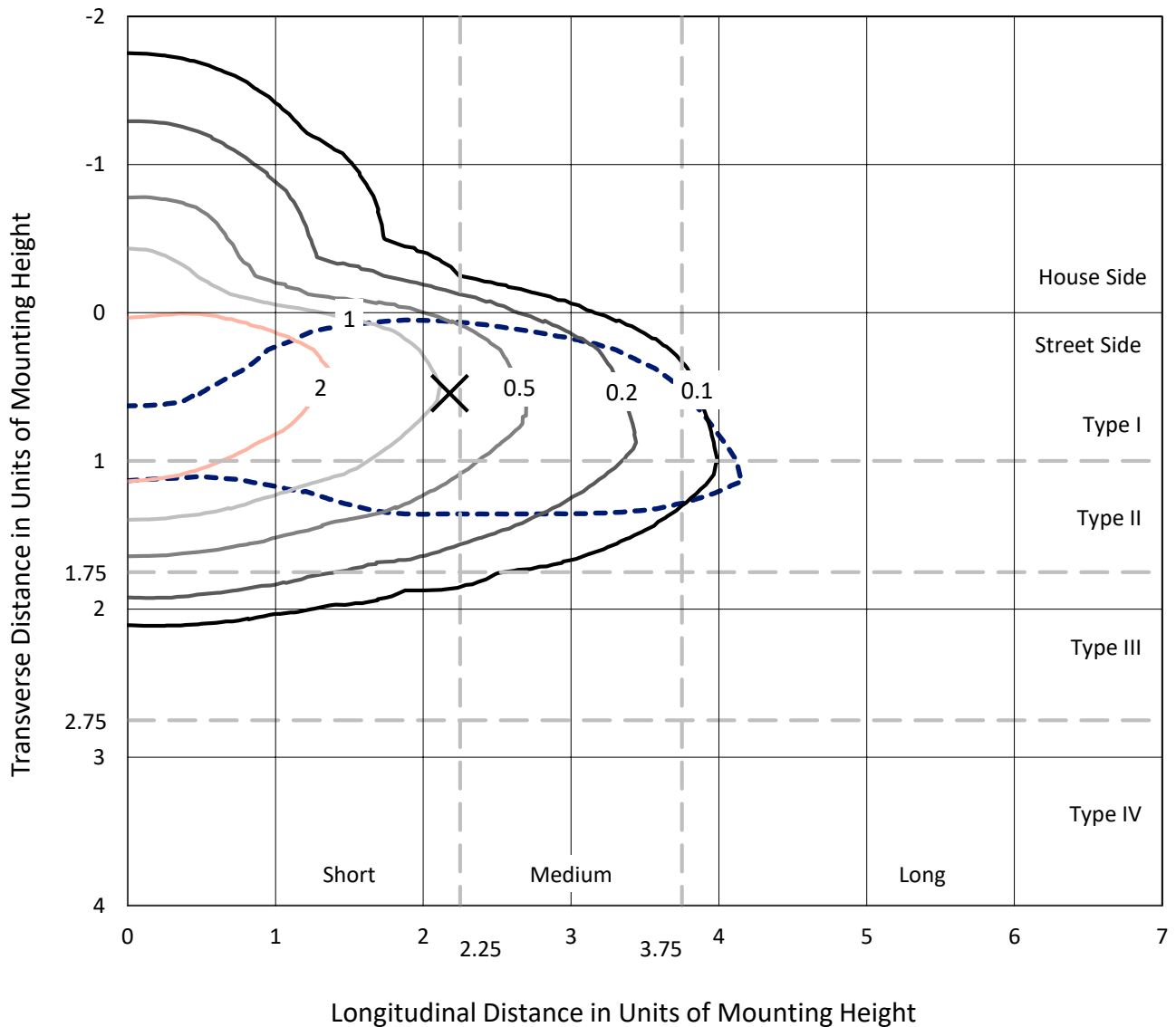
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

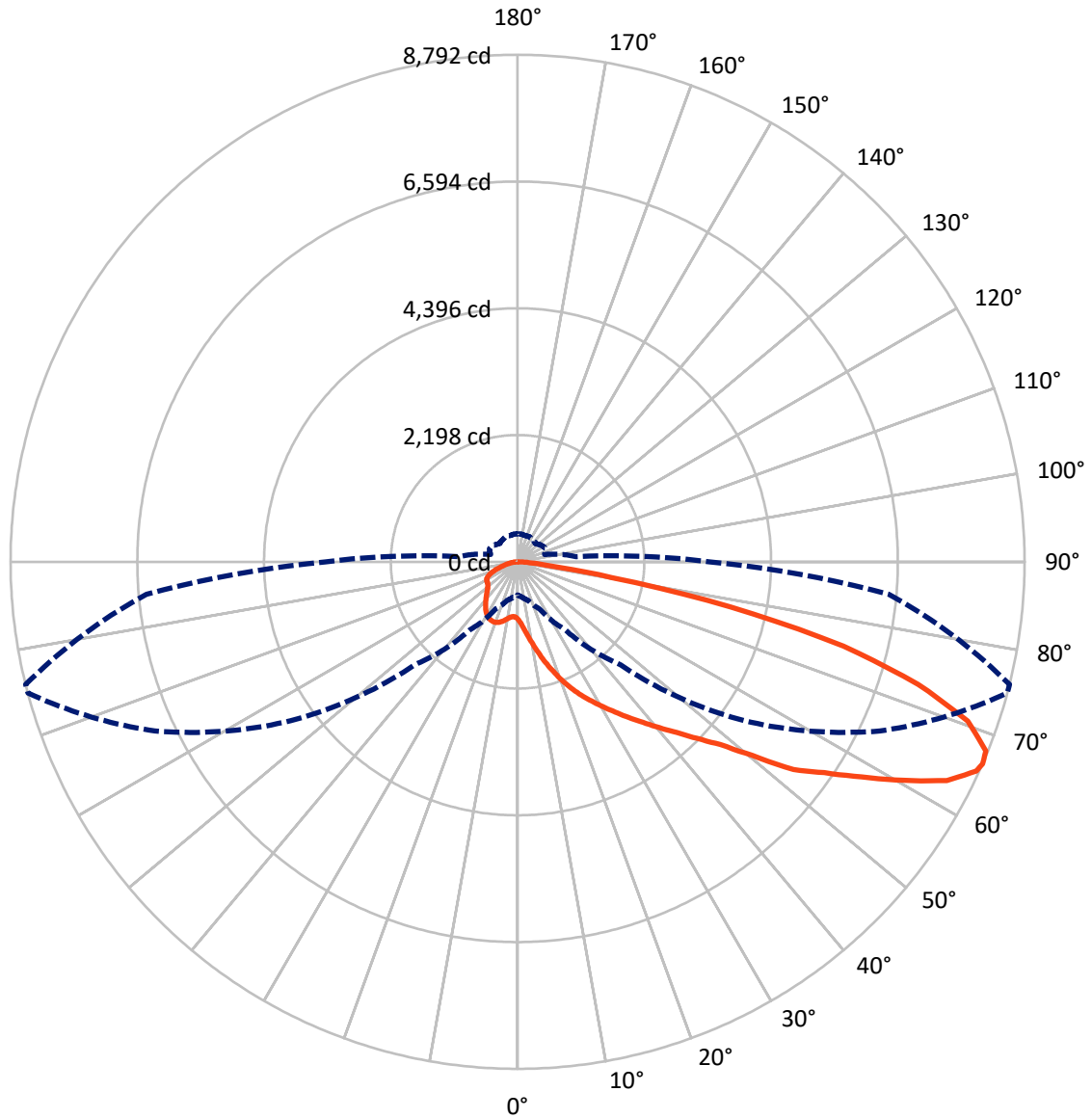
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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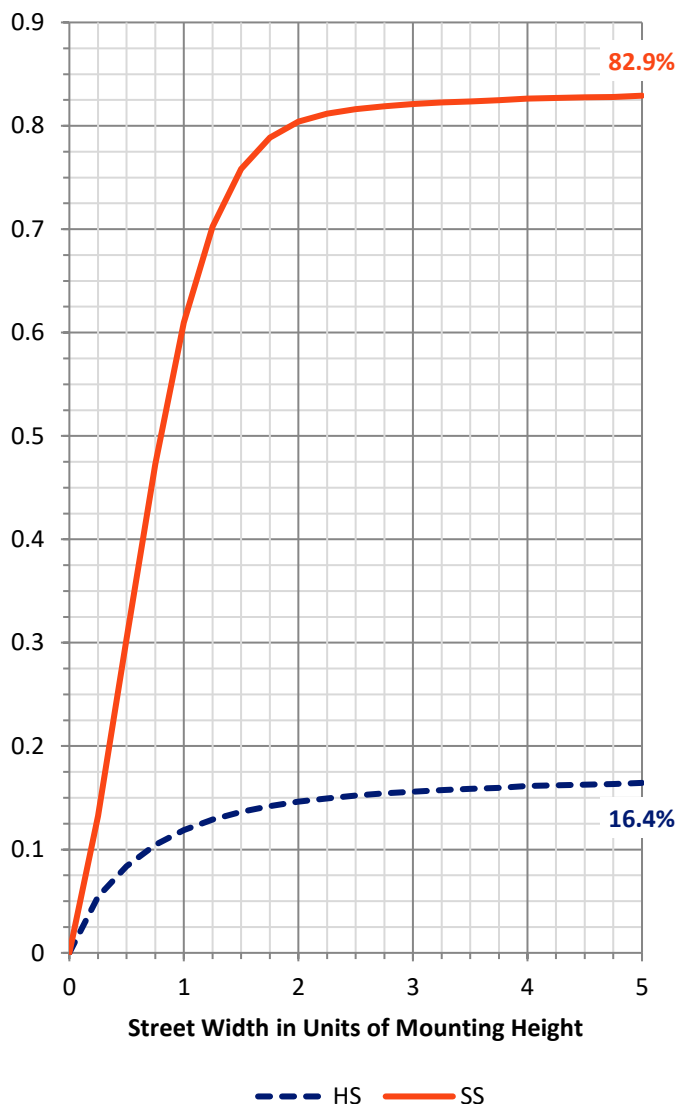
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1833.4	0.0	1833.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	9062.6	0.0	9062.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	10896.0	0.0	10896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	1.1
10°-20°	475.2	4.4
20°-30°	923.4	8.5
30°-40°	1507.1	13.8
40°-50°	2059.1	18.9
50°-60°	2398.5	22.0
60°-70°	2150.3	19.7
70°-80°	1086.7	10.0
80°-90°	175.5	1.6
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°	10896.0	100.0
0°-180°	10896.0	100.0

**Coefficient of Utilization**



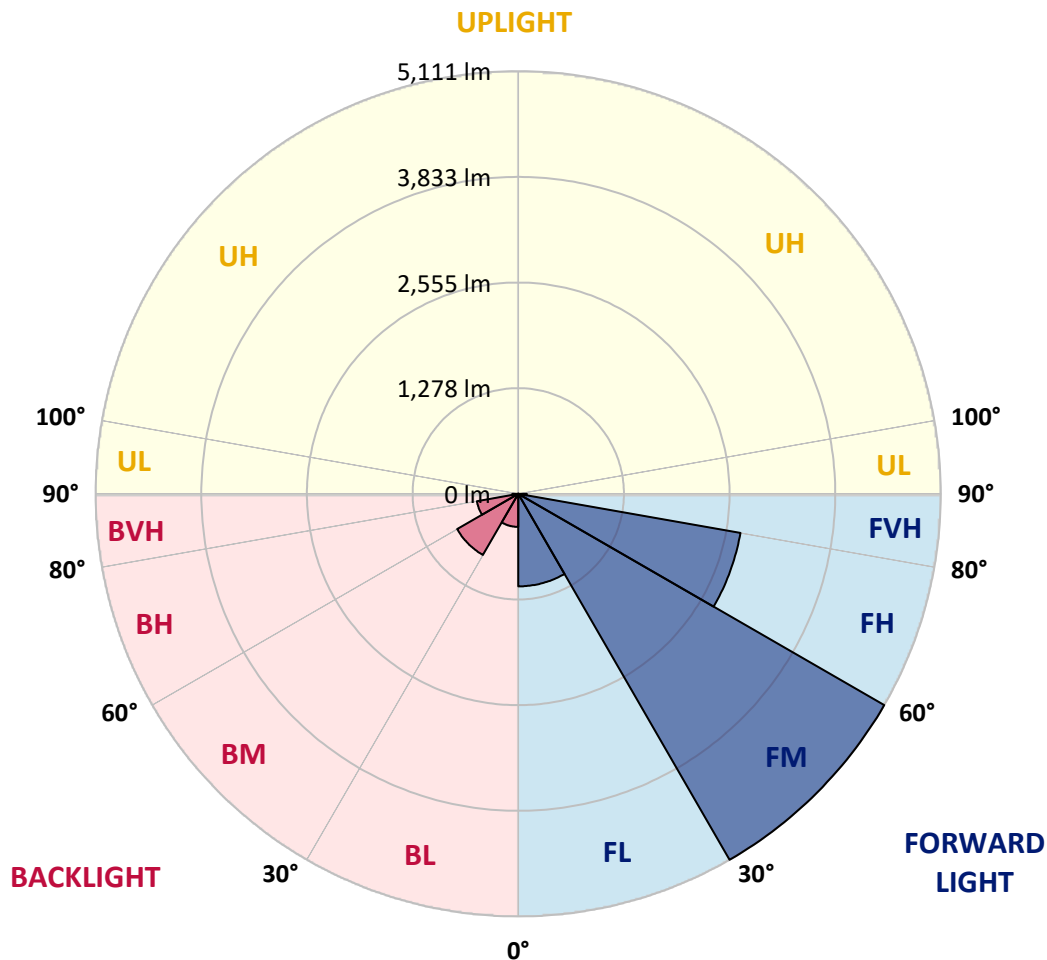
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.0	10.3			
FM (30°-60°)	5111.0	46.9			
FH (60°-80°)	2729.0	25.0			G2/5000
FVH (80°-90°)	103.6	1.0			G2/225
BL (0°-30°)	399.9	3.7	B1/500		
BM (30°-60°)	853.8	7.8	B1/1000		
BH (60°-80°)	507.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	71.8	0.7			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°	76°	85°
0°	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1
2.5°	1320.9	1301.0	1299.1	1269.9	1263.2	1207.4	1166.3	1123.4	1074.6	1065.0	1026.5
5°	1696.8	1694.9	1669.4	1621.7	1584.3	1488.9	1394.6	1294.7	1185.2	1167.4	1080.9
7.5°	2034.9	2031.9	2012.3	1960.9	1906.9	1789.6	1655.0	1501.8	1324.3	1298.0	1154.5
10°	2291.6	2290.5	2283.8	2246.1	2200.2	2087.8	1939.1	1730.1	1485.9	1450.0	1246.6
12.5°	2489.8	2492.1	2496.5	2483.2	2461.4	2365.6	2213.2	1972.0	1658.3	1622.8	1349.1
15°	2624.1	2630.8	2653.7	2672.6	2684.0	2625.2	2477.6	2219.4	1851.4	1808.8	1462.6
17.5°	2691.8	2699.2	2738.8	2795.8	2848.3	2842.4	2725.1	2455.4	2036.7	1995.6	1584.7
20°	2750.3	2755.8	2800.2	2868.6	2961.5	3002.5	2936.7	2682.6	2239.8	2191.0	1714.2
22.5°	2919.7	2926.7	2940.0	2978.9	3061.0	3136.4	3104.6	2897.5	2425.9	2380.4	1837.0
25°	3246.7	3255.2	3226.3	3193.4	3208.9	3261.5	3267.4	3093.5	2614.5	2563.1	1969.0
27.5°	3640.6	3652.8	3603.6	3518.9	3444.9	3424.6	3417.6	3254.1	2794.6	2735.1	2099.6
30°	4026.4	4047.5	3983.5	3873.7	3737.9	3642.5	3571.8	3411.3	2972.2	2915.2	2222.8
32.5°	4403.4	4394.9	4302.0	4194.7	4035.7	3916.2	3745.3	3580.0	3172.0	3106.5	2345.2
35°	4661.6	4664.5	4578.3	4451.1	4299.4	4207.7	3977.6	3762.0	3375.8	3315.5	2484.3
37.5°	4881.3	4867.6	4770.0	4651.2	4520.6	4481.4	4249.5	3962.4	3596.6	3530.8	2632.3
40°	4954.5	4938.6	4874.6	4789.2	4684.5	4681.2	4549.5	4189.6	3846.3	3781.2	2799.1
42.5°	4910.1	4889.8	4863.5	4840.2	4808.1	4822.9	4831.4	4455.9	4120.8	4047.9	2992.2
45°	4746.3	4715.6	4734.1	4784.8	4854.7	4938.3	5085.9	4750.7	4428.2	4367.1	3218.9
47.5°	4494.4	4466.6	4524.3	4632.7	4822.9	5034.4	5326.7	5076.2	4795.1	4734.4	3541.9
50°	4140.0	4148.1	4230.6	4427.8	4715.2	5078.8	5623.3	5507.2	5328.5	5271.9	3982.4
52.5°	3558.5	3560.0	3792.3	4116.0	4524.3	5055.9	5787.9	6058.0	6056.9	5988.4	4401.9
55°	3018.4	3051.4	3235.2	3665.4	4215.1	4964.2	5903.0	6325.8	6535.2	6454.9	4792.9
57.5°	2491.0	2510.2	2684.4	3116.5	3773.8	4719.6	6021.0	6647.2	7086.3	7035.6	5278.9
60°	1891.0	1920.6	2100.7	2499.8	3209.3	4285.7	6032.1	6982.7	7745.1	7694.1	5821.6
62.5°	1227.4	1278.4	1447.1	1821.1	2526.5	3661.7	5774.6	7202.1	8369.5	8351.4	6303.2
65°	705.4	743.9	861.1	1149.7	1743.0	2878.2	5162.4	7117.8	8753.9	8743.5	6483.4
66°	576.3	600.4	690.2	898.5	1438.2	2527.6	4806.6	6939.8	8792.0	8792.3	6462.6
67.5°	460.9	471.6	512.0	643.3	1061.3	2003.4	4170.7	6547.4	8744.6	8757.6	6329.1
70°	381.4	386.9	399.5	431.3	579.3	1208.1	2960.4	5527.5	8269.3	8279.3	5807.9
72.5°	342.2	345.5	350.3	354.7	408.7	675.1	1808.1	4421.9	7250.2	7263.1	5013.7
75°	310.0	311.8	311.1	311.5	342.9	430.2	934.4	3301.4	5862.3	5836.4	3840.7
77.5°	272.3	274.1	270.4	271.1	303.3	330.7	465.0	2311.2	3956.2	3773.4	2164.0
80°	230.1	231.6	230.1	232.7	264.1	249.7	270.4	1300.2	1749.3	1654.6	769.4
82.5°	173.9	180.1	184.6	194.9	217.5	177.6	180.9	506.4	532.7	507.1	236.0
85°	76.2	92.8	139.1	149.1	163.5	106.5	118.7	206.4	216.8	210.1	85.8
87.5°	20.0	21.8	68.8	86.6	90.6	48.1	61.8	94.0	99.1	94.0	28.5
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°	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1	995.1
2.5°	1006.1	988.0	955.5	926.6	904.8	890.0	875.2	867.8	863.4	858.9	859.7
5°	1038.3	1001.7	945.9	906.3	884.1	870.0	862.6	859.7	857.8	853.4	853.4
7.5°	1086.8	1035.0	958.1	917.4	900.0	889.3	884.8	883.3	881.1	875.9	876.7
10°	1147.8	1075.3	983.6	944.0	928.1	916.3	910.0	907.8	903.7	897.8	898.5
12.5°	1219.6	1125.3	1017.2	975.8	956.6	940.7	930.3	924.0	917.0	909.2	909.6
15°	1298.0	1179.6	1053.5	1004.3	978.0	955.8	939.2	928.5	917.4	907.8	907.4
17.5°	1377.5	1232.2	1081.2	1019.8	984.3	955.1	932.5	915.9	902.2	890.4	889.3
20°	1463.4	1279.5	1096.8	1018.4	972.5	937.7	907.8	887.0	871.9	860.0	858.2
22.5°	1550.7	1323.9	1099.4	1003.2	946.2	903.7	872.2	849.3	833.8	821.6	817.1
25°	1630.6	1358.3	1088.6	974.0	909.6	863.7	833.0	809.7	797.2	782.7	778.3
27.5°	1703.4	1382.3	1067.2	936.6	868.5	823.4	794.6	774.6	760.9	749.8	746.1
30°	1768.9	1395.3	1032.0	892.2	826.4	785.3	760.9	747.2	735.4	721.3	718.7
32.5°	1831.0	1395.3	986.9	843.8	784.6	751.7	737.2	728.7	715.4	701.7	698.0
35°	1893.2	1386.8	933.6	793.1	746.1	727.6	726.9	716.9	696.5	678.0	673.2
37.5°	1958.7	1369.4	873.7	745.7	714.7	716.9	723.2	701.0	672.1	645.9	638.8
40°	2032.6	1345.4	811.6	704.7	688.4	712.1	713.2	678.0	621.8	597.8	591.5
42.5°	2119.6	1321.3	753.9	668.4	667.7	697.6	694.3	628.5	594.8	582.6	579.3
45°	2233.9	1307.6	699.1	634.0	651.4	674.3	662.1	601.1	587.0	580.0	577.1
47.5°	2414.0	1314.7	648.8	606.6	635.1	651.0	602.2	590.0	580.0	571.5	568.5
50°	2639.7	1310.6	608.1	587.8	616.6	626.6	575.2	575.6	570.4	560.8	556.3
52.5°	2809.4	1278.8	581.9	577.1	600.4	583.3	558.2	561.5	558.9	544.9	540.1
55°	2973.3	1251.4	568.5	573.0	588.5	529.3	538.2	546.4	543.8	530.1	527.9
57.5°	3177.1	1246.2	560.4	574.1	578.5	502.3	519.0	529.7	527.9	521.9	520.8
60°	3426.8	1247.7	553.0	575.9	567.4	482.4	500.9	514.5	515.7	514.5	513.8
62.5°	3564.1	1207.4	534.5	570.8	547.8	465.0	482.0	502.0	502.3	504.6	504.2
65°	3447.5	1086.8	500.1	552.6	514.9	450.5	465.7	487.5	482.0	492.0	492.0
66°	3334.3	1017.2	483.1	540.8	500.9	445.0	460.5	480.1	473.1	486.8	486.8
67.5°	3103.2	900.0	452.4	515.7	480.9	437.2	454.6	467.9	458.3	478.7	477.2
70°	2680.7	696.2	390.6	458.7	448.0	425.8	446.5	443.5	429.5	460.5	454.6
72.5°	2260.1	529.0	313.7	384.0	398.0	411.3	435.0	412.4	394.7	416.5	403.6
75°	1753.7	397.7	247.8	298.5	336.2	388.8	421.3	376.6	351.0	348.8	341.8
77.5°	948.1	273.0	196.4	227.9	267.1	360.7	412.1	338.1	299.6	290.7	285.2
80°	375.5	177.6	142.8	172.7	186.8	320.0	389.9	293.3	247.1	238.2	229.7
82.5°	155.0	105.1	92.1	115.8	121.7	273.7	349.9	240.4	190.9	264.1	280.4
85°	66.6	57.7	54.7	59.9	68.8	192.0	278.5	183.5	206.0	183.8	146.1
87.5°	20.0	24.4	23.3	22.9	25.2	45.9	148.3	102.1	151.3	57.3	42.9
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)