

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: P318200

Luminaire Tested: **GLEON-SA6B-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24657 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

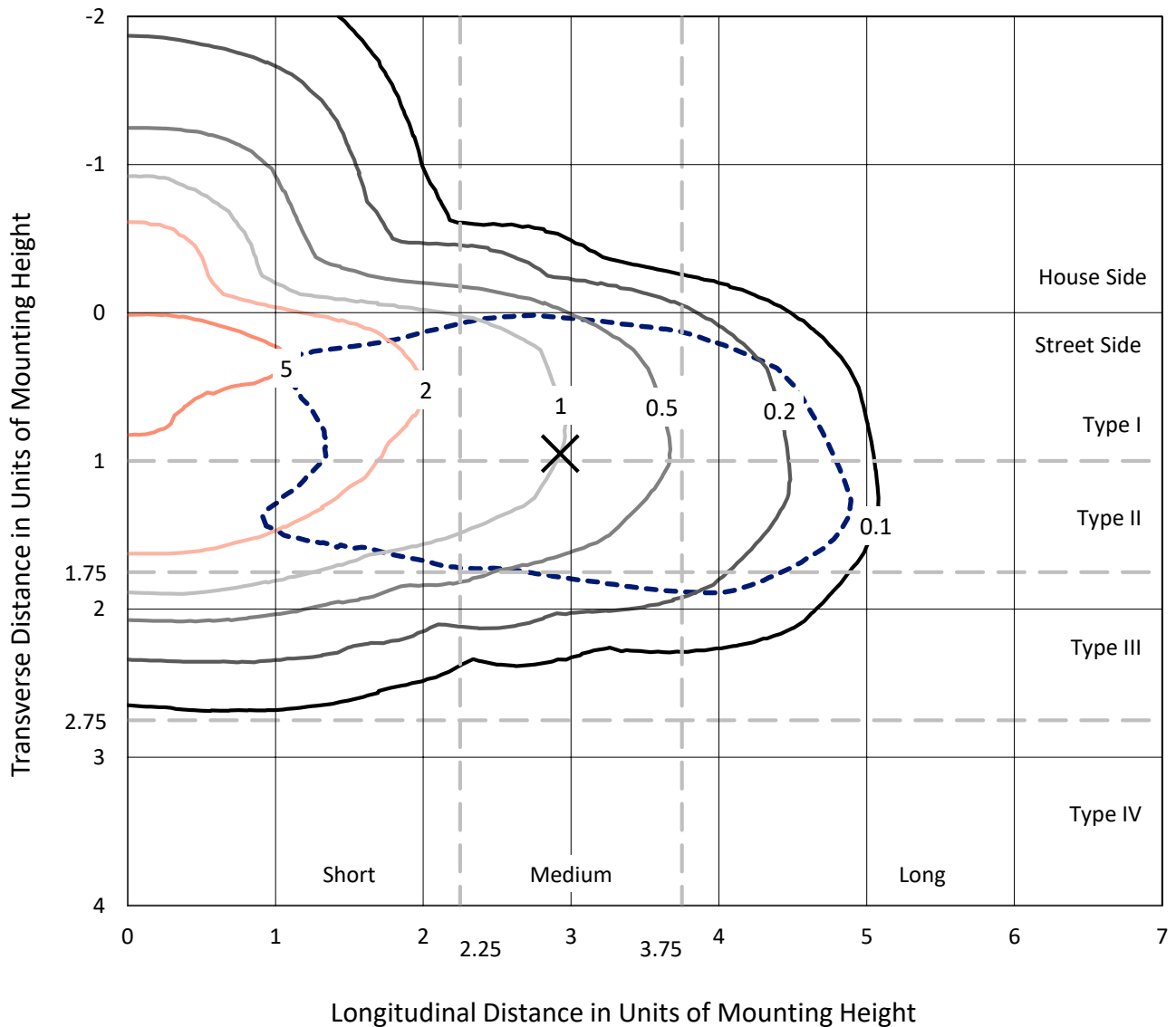
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

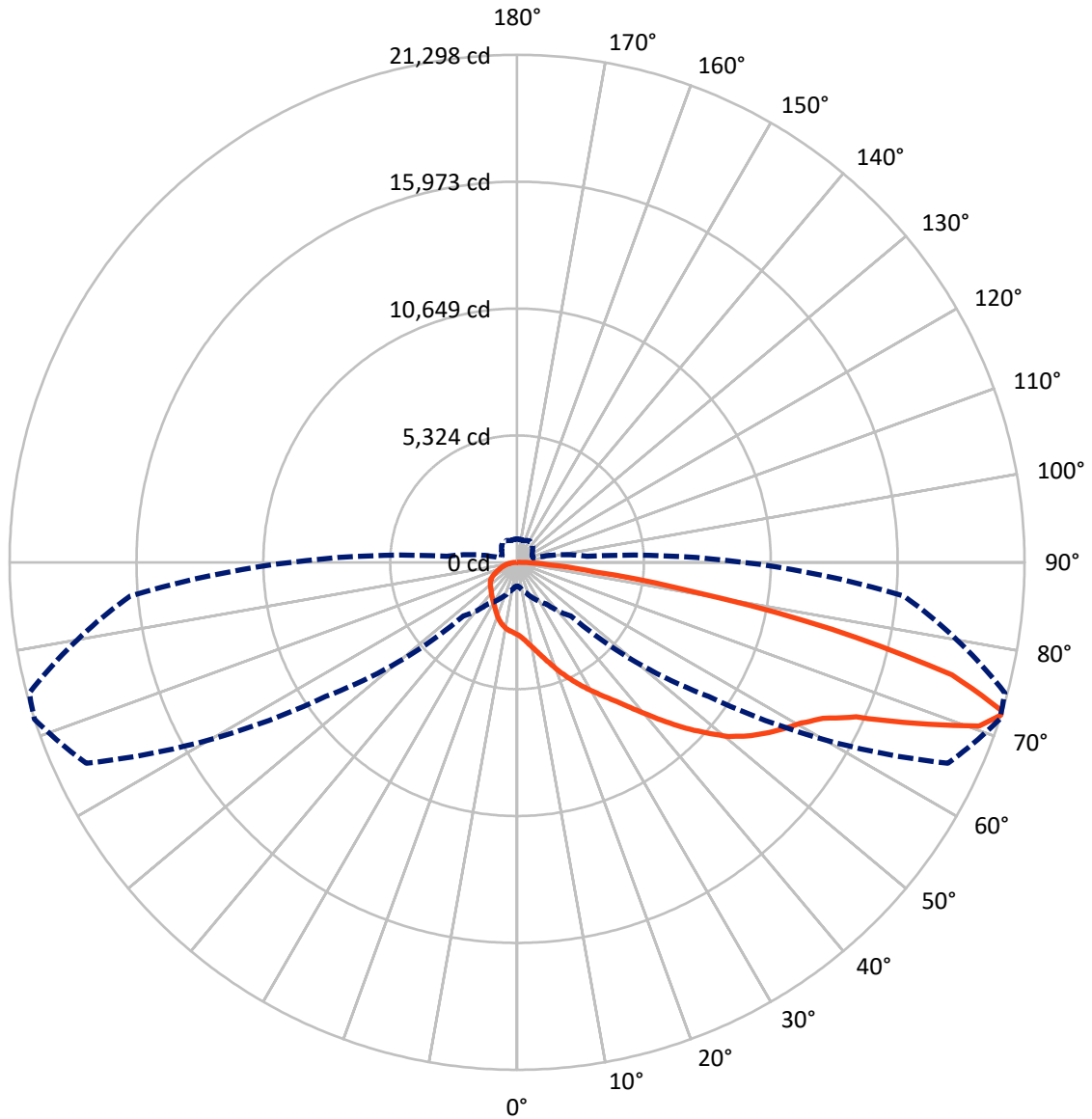
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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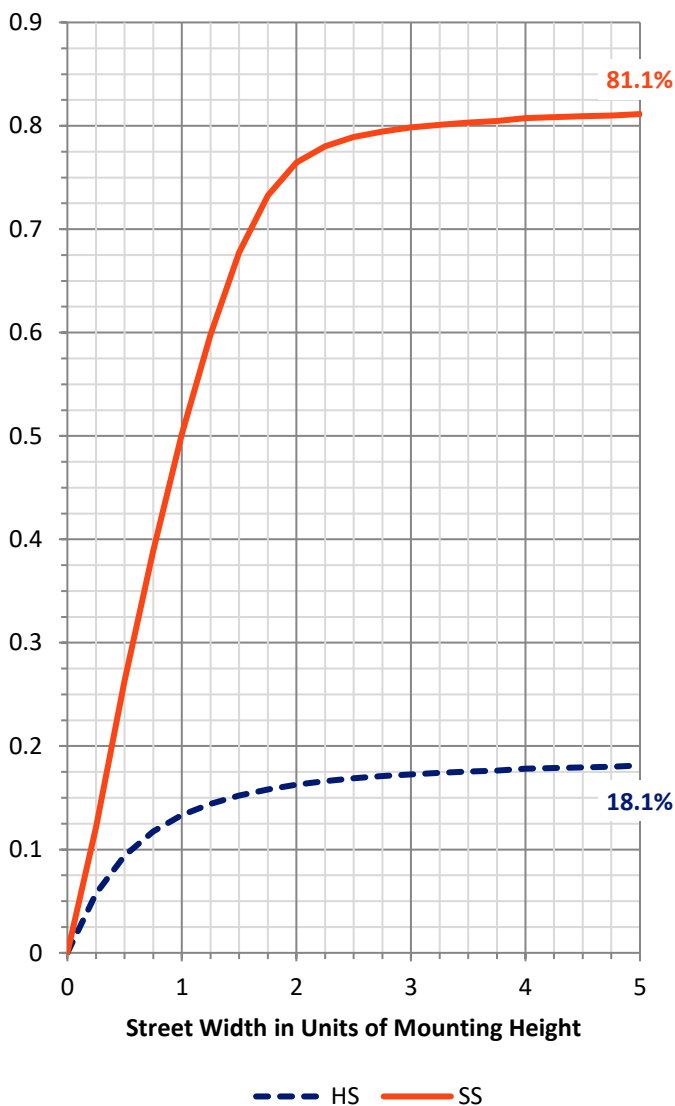
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4574.0	0.0	4574.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20083.0	0.0	20083.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	24657.0	0.0	24657.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.0	1.2
10°-20°	982.3	4.0
20°-30°	1721.2	7.0
30°-40°	2552.0	10.4
40°-50°	3732.5	15.1
50°-60°	5135.9	20.8
60°-70°	5717.8	23.2
70°-80°	3874.4	15.7
80°-90°	636.8	2.6
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°	24657.0	100.0
0°-180°	24657.0	100.0

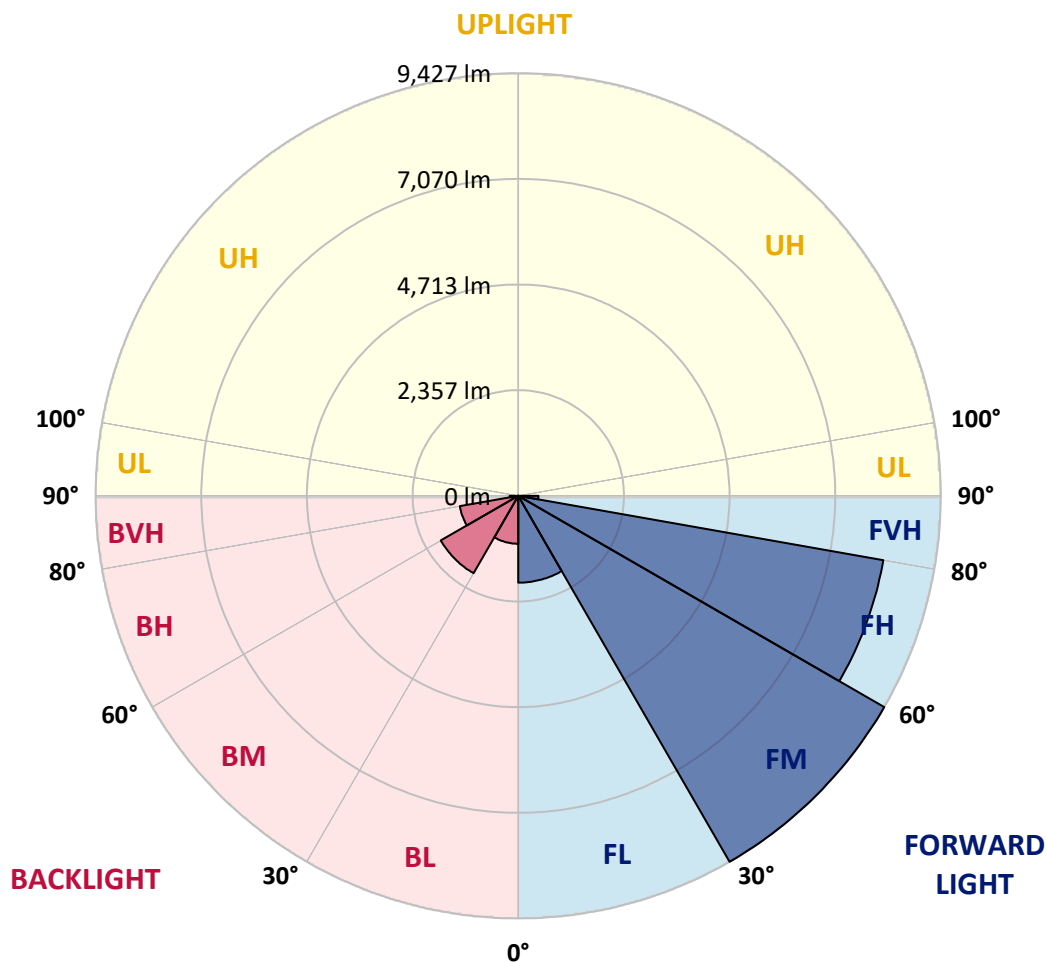


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1938.2	7.9			
FM (30°-60°)	9426.7	38.2			
FH (60°-80°)	8268.9	33.5			G4/12000
FVH (80°-90°)	449.2	1.8			G3/500
BL (0°-30°)	1069.2	4.3	B3/2500		
BM (30°-60°)	1993.8	8.1	B2/2500		
BH (60°-80°)	1323.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	187.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5
2.5°	3351.0	3345.9	3328.1	3328.1	3294.1	3265.2	3210.9	3174.4	3131.1	3115.8	3064.9
5°	3675.3	3677.0	3654.9	3639.6	3589.5	3528.4	3435.9	3351.8	3267.8	3233.8	3129.4
7.5°	3947.8	3944.4	3938.5	3925.7	3879.1	3816.2	3691.4	3566.6	3442.7	3391.7	3211.7
10°	4122.7	4130.4	4135.4	4141.4	4121.9	4076.9	3958.9	3806.9	3644.7	3575.1	3310.2
12.5°	4211.0	4224.6	4248.4	4289.1	4321.4	4316.3	4230.5	4069.2	3876.5	3789.1	3433.3
15°	4262.8	4280.6	4318.0	4391.0	4481.8	4533.6	4510.7	4364.7	4149.9	4042.1	3583.6
17.5°	4295.1	4309.5	4367.2	4464.9	4599.8	4737.4	4797.7	4675.4	4458.9	4335.8	3755.9
20°	4317.1	4328.2	4400.3	4514.9	4689.8	4908.9	5077.0	5046.4	4799.4	4639.8	3935.9
22.5°	4366.4	4375.7	4444.5	4559.9	4753.5	5036.2	5346.1	5392.0	5158.5	4977.6	4128.7
25°	4503.9	4503.9	4561.6	4642.3	4824.0	5146.6	5573.6	5776.6	5525.3	5314.7	4306.9
27.5°	4766.3	4763.7	4784.9	4812.9	4950.5	5258.7	5776.6	6116.2	5905.6	5675.5	4480.1
30°	5077.0	5094.0	5096.5	5082.9	5147.4	5398.8	5964.2	6474.4	6288.5	6040.6	4657.6
32.5°	5476.9	5487.9	5475.2	5430.2	5420.8	5597.4	6148.4	6849.7	6702.8	6421.8	4819.7
35°	5984.6	5963.3	5923.4	5831.7	5744.3	5863.2	6359.0	7224.9	7168.1	6882.8	5043.0
37.5°	6528.8	6529.6	6480.4	6272.4	6151.8	6202.7	6649.3	7650.3	7730.9	7431.2	5329.1
40°	6965.1	6988.1	7018.6	6745.3	6589.0	6659.5	7018.6	8143.5	8396.5	8081.6	5701.8
42.5°	7269.9	7296.3	7382.8	7211.4	7049.2	7179.9	7453.3	8669.9	9143.7	8832.1	6138.2
45°	7592.6	7607.0	7668.1	7594.2	7490.7	7785.3	7943.2	9215.0	9934.1	9631.8	6626.4
47.5°	7932.1	7947.4	8010.3	7961.0	7906.7	8350.7	8454.3	9728.6	10691.4	10510.5	7147.7
50°	8351.6	8361.7	8421.2	8332.0	8349.0	8776.9	8911.0	10199.8	11485.2	11300.1	7670.7
52.5°	8923.8	8926.3	9008.7	8928.0	8848.2	9089.3	9304.1	10643.8	12107.5	12020.1	8193.6
55°	9372.0	9399.2	9669.2	9652.2	9606.4	9372.9	9632.7	11066.6	12662.7	12704.3	8748.9
57.5°	9085.9	9192.1	9738.8	10124.2	10499.5	10078.4	10076.7	11542.9	13178.9	13375.9	9359.3
60°	7957.6	8101.9	8907.6	9762.6	10936.7	11306.0	10998.7	12124.5	13700.2	14041.5	10124.2
62.5°	5683.2	5920.9	7012.7	8377.9	10337.3	12119.4	12875.0	13047.3	14409.1	14812.4	11118.4
65°	2873.0	3053.0	3968.2	5612.7	8259.0	11587.9	14914.3	15067.9	15641.0	15999.3	12649.2
67.5°	1745.5	1813.5	2260.0	3121.7	5063.4	9026.5	15579.9	18435.9	18025.0	18215.2	14831.9
70°	1286.2	1336.3	1614.8	2073.2	2912.0	5296.9	13537.2	20839.4	20569.4	20548.2	16445.0
72°	1001.8	1038.3	1284.5	1675.1	2129.3	3177.8	9811.8	19952.2	21297.9	21190.9	16297.3
72.5°	950.0	982.3	1206.4	1576.6	2012.1	2880.6	8821.9	19353.7	21245.2	21196.8	16106.3
75°	748.0	770.9	893.1	1219.2	1574.9	1634.3	4834.2	14998.3	18846.8	19630.4	14486.4
77.5°	618.9	622.3	686.8	887.2	1227.6	1155.5	2374.6	10406.1	13495.6	14357.3	10261.8
80°	504.3	508.5	539.1	622.3	928.8	854.9	1127.5	5983.7	7556.0	7565.4	4880.0
82.5°	401.6	402.4	436.4	455.1	667.3	611.3	646.1	2809.3	3301.7	3176.1	1754.0
85°	282.7	276.8	426.2	373.6	436.4	392.2	356.6	1112.2	1365.2	1305.8	549.3
87.5°	94.2	97.6	189.3	242.0	254.7	222.4	158.8	426.2	515.3	511.1	174.0
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°	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5	3033.5
2.5°	3048.7	3021.6	2981.7	2937.5	2902.7	2867.1	2840.7	2827.1	2811.9	2799.1	2814.4
5°	3081.0	3030.1	2945.2	2862.0	2800.8	2746.5	2707.4	2687.1	2668.4	2655.7	2657.4
7.5°	3133.6	3051.3	2908.7	2787.2	2702.3	2643.8	2603.9	2590.3	2578.4	2575.0	2579.2
10°	3189.7	3068.3	2860.3	2699.0	2602.2	2553.8	2535.9	2545.3	2553.8	2561.4	2569.9
12.5°	3253.3	3083.5	2789.8	2595.4	2513.0	2494.3	2512.2	2552.9	2582.6	2600.5	2611.5
15°	3336.5	3097.1	2708.3	2491.8	2436.6	2457.8	2518.1	2588.6	2640.4	2673.5	2678.6
17.5°	3413.0	3096.3	2603.9	2387.4	2374.6	2436.6	2527.5	2626.8	2696.4	2743.1	2752.4
20°	3491.9	3073.4	2482.5	2285.5	2311.8	2413.7	2531.7	2651.4	2735.5	2789.8	2802.5
22.5°	3565.8	3033.5	2349.2	2193.0	2259.2	2383.1	2515.6	2637.0	2721.0	2765.2	2778.8
25°	3615.9	2963.8	2214.2	2114.8	2212.5	2345.8	2462.9	2560.6	2623.4	2645.5	2648.9
27.5°	3641.3	2873.0	2086.8	2046.9	2164.1	2284.6	2365.3	2413.7	2431.5	2429.8	2426.4
30°	3644.7	2753.3	1977.3	1991.7	2108.1	2194.6	2232.9	2223.5	2200.6	2161.5	2164.9
32.5°	3633.7	2618.3	1885.6	1939.1	2036.7	2085.1	2086.8	2041.8	1980.7	1918.7	1901.7
35°	3637.1	2485.9	1805.0	1879.7	1950.1	1971.4	1951.8	1885.6	1802.4	1722.6	1705.6
37.5°	3674.4	2370.4	1735.3	1810.9	1854.2	1859.3	1831.3	1761.7	1700.5	1622.4	1615.6
40°	3763.6	2288.0	1669.1	1733.6	1758.3	1760.8	1720.9	1671.7	1676.8	1635.2	1634.3
42.5°	3924.0	2252.4	1610.5	1653.0	1668.3	1673.4	1642.8	1611.4	1655.5	1628.4	1619.0
45°	4131.2	2260.9	1561.3	1574.0	1602.1	1625.8	1607.1	1568.9	1585.9	1467.9	1428.9
47.5°	4370.6	2315.2	1522.2	1506.1	1554.5	1599.5	1570.6	1512.9	1452.6	1335.5	1313.4
50°	4650.8	2399.3	1486.6	1439.0	1502.7	1563.8	1535.0	1452.6	1361.8	1304.9	1297.3
52.5°	4942.8	2502.0	1450.9	1365.2	1437.3	1536.7	1522.2	1439.0	1327.0	1270.9	1260.8
55°	5273.9	2605.6	1405.9	1279.4	1366.9	1523.9	1516.3	1389.8	1300.7	1269.2	1261.6
57.5°	5685.7	2723.6	1346.5	1190.3	1300.7	1478.1	1454.3	1360.1	1273.5	1249.7	1247.2
60°	6222.3	2897.6	1260.8	1095.2	1220.0	1407.6	1402.5	1316.8	1230.2	1213.2	1209.8
62.5°	7027.1	3185.4	1142.7	1000.1	1130.0	1287.9	1334.6	1258.2	1184.3	1183.5	1185.2
65°	8275.1	3618.4	1014.5	916.9	1039.2	1186.9	1255.7	1197.9	1137.7	1154.6	1157.2
67.5°	9721.8	3977.5	888.9	835.4	946.6	1091.0	1184.3	1137.7	1075.7	1119.8	1120.7
70°	10203.2	3656.6	778.5	754.8	850.7	998.4	1107.1	1071.4	1008.6	1052.8	1048.5
72°	9495.1	2952.0	707.2	693.6	778.5	922.0	1038.3	1009.5	947.5	977.2	966.2
72.5°	9271.9	2814.4	689.4	678.3	759.0	902.5	1020.5	994.2	932.2	957.7	947.5
75°	8270.9	2444.3	592.6	595.1	662.2	807.4	920.3	911.8	848.1	850.7	847.3
77.5°	5999.0	1792.2	499.2	516.2	563.7	709.8	819.3	814.2	744.6	731.8	729.3
80°	2783.9	914.4	406.7	414.3	463.6	593.4	698.7	691.9	635.9	619.8	610.4
82.5°	953.4	434.7	305.6	310.7	359.1	478.0	606.2	601.9	555.2	523.8	504.3
85°	340.4	216.5	213.9	208.9	256.4	376.1	528.1	505.2	436.4	371.9	370.2
87.5°	110.4	92.5	110.4	109.5	149.4	254.7	383.7	326.9	316.7	263.2	258.1
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)