

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: P382983

Luminaire Tested: **GLEON-SA3B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16255.5 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

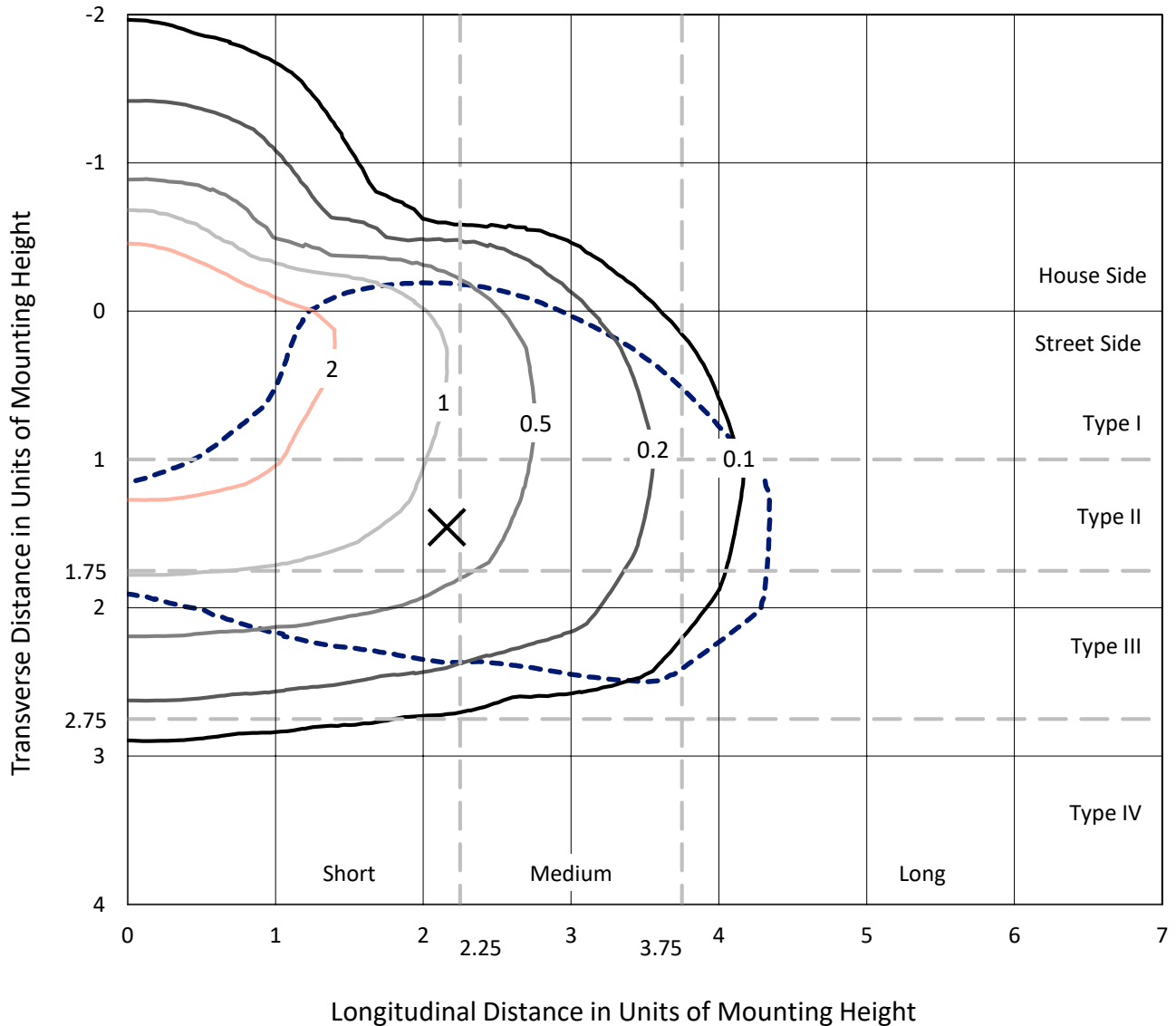
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382983  
 CATALOG NUMBER: GLEON-SA3B-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

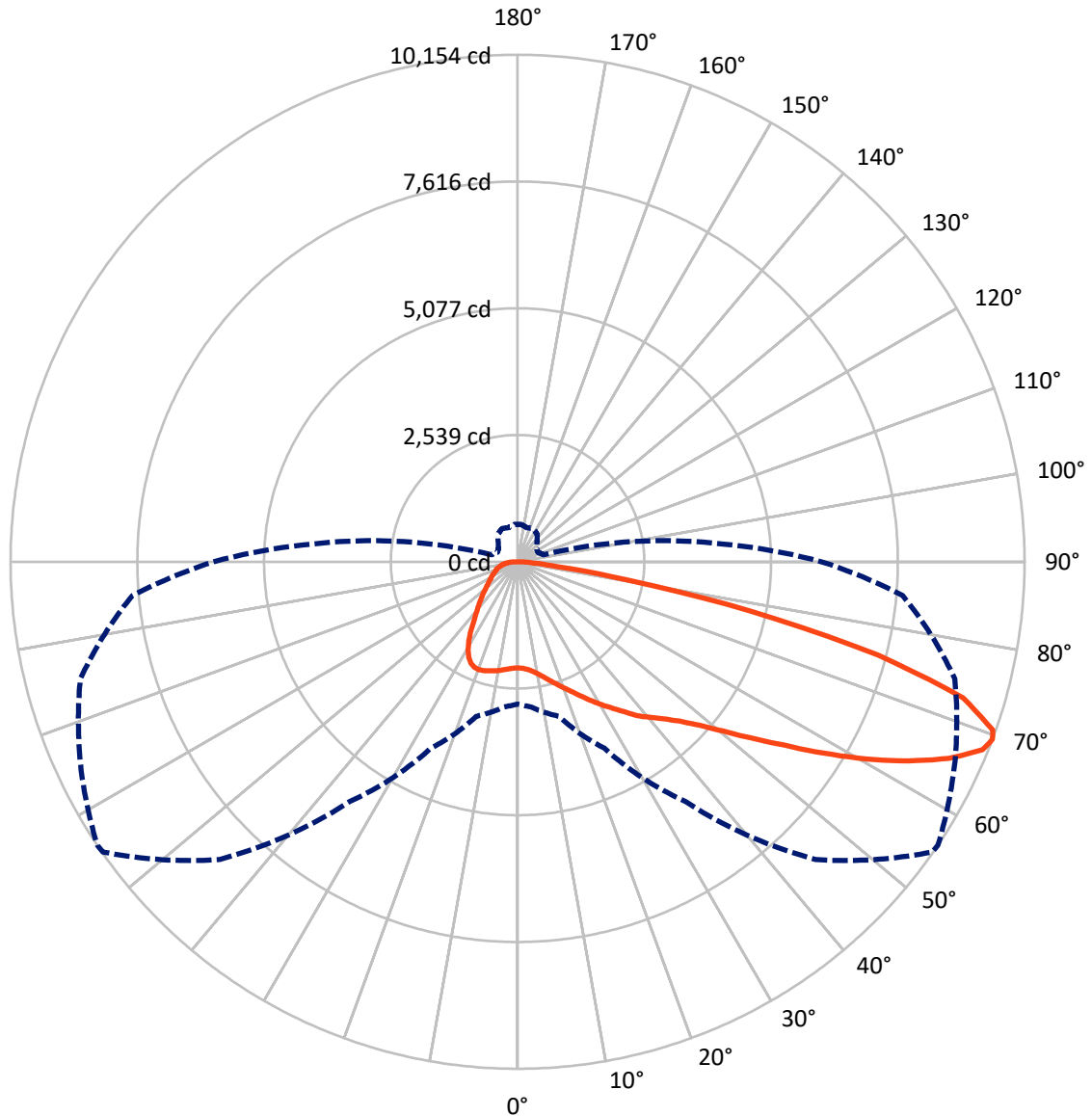
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P382983  
CATALOG NUMBER: GLEON-SA3B-735-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P382983  
 CATALOG NUMBER: GLEON-SA3B-735-U-T3

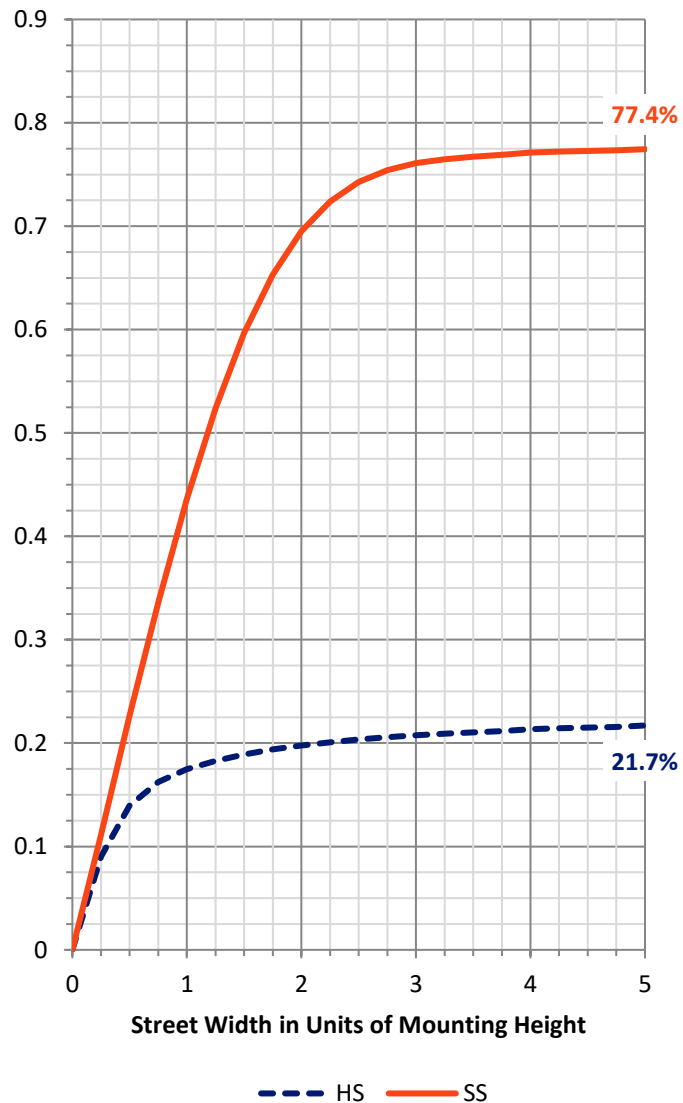
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3620.1	0.0	3620.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	12635.4	0.0	12635.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	16255.5	0.0	16255.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	1.3
10°-20°	671.2	4.1
20°-30°	1171.6	7.2
30°-40°	1683.0	10.4
40°-50°	2329.2	14.3
50°-60°	3412.5	21.0
60°-70°	4160.5	25.6
70°-80°	2300.2	14.2
80°-90°	318.6	2.0
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°	16255.5	100.0
0°-180°	16255.5	100.0

**Coefficient of Utilization**



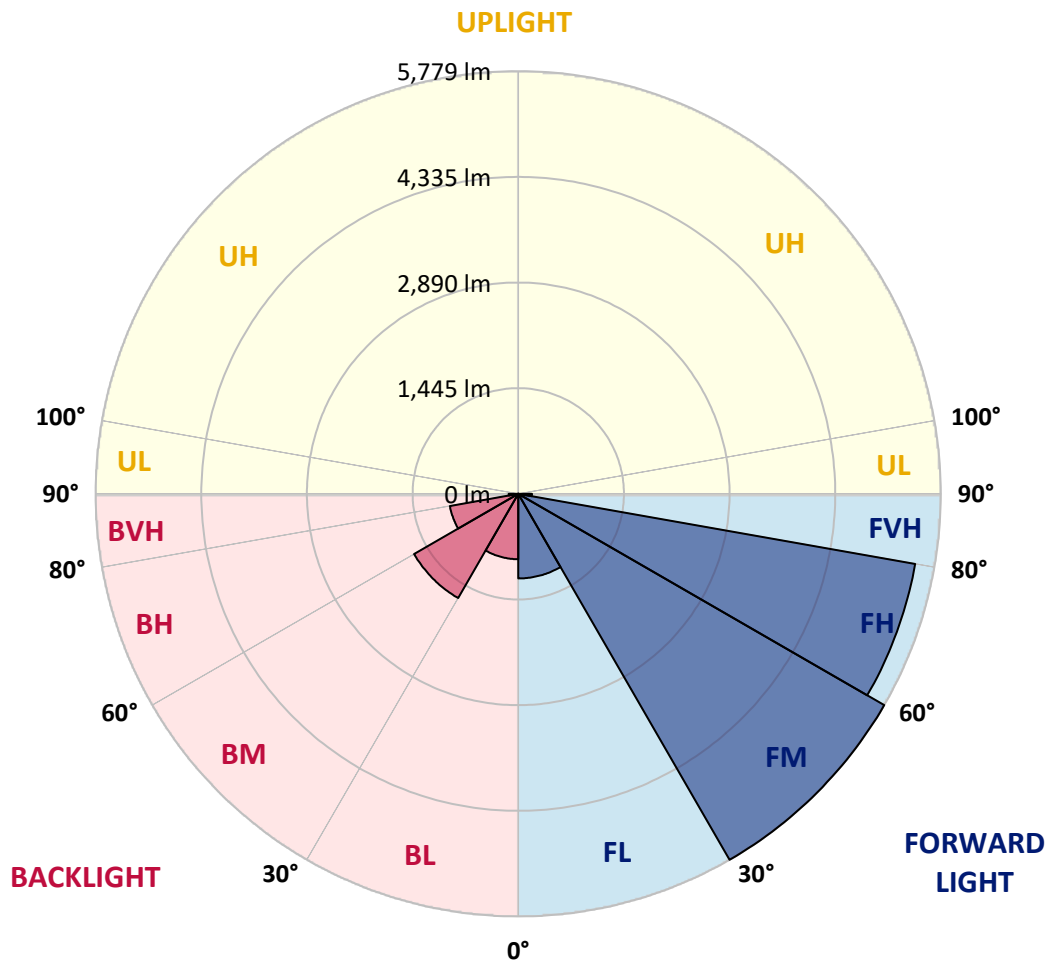
REPORT NUMBER: P382983  
 CATALOG NUMBER: GLEON-SA3B-735-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.9	7.1			
FM (30°-60°)	5779.4	35.6			
FH (60°-80°)	5511.4	33.9			G3/7500
FVH (80°-90°)	187.7	1.2			G2/225
BL (0°-30°)	894.6	5.5	B2/1000		
BM (30°-60°)	1645.2	10.1	B2/2500		
BH (60°-80°)	949.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	130.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P382983

CATALOG NUMBER: GLEON-SA3B-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1
2.5°	2138.6	2140.9	2139.2	2143.7	2138.6	2142.0	2139.2	2139.2	2137.4	2132.4	2126.8
5°	2172.2	2176.7	2173.9	2178.3	2172.2	2173.3	2168.3	2168.3	2163.2	2152.6	2141.4
7.5°	2224.8	2229.8	2227.6	2232.1	2223.7	2223.7	2217.0	2216.4	2206.4	2189.0	2176.1
10°	2287.6	2294.3	2292.1	2298.8	2292.1	2294.3	2287.6	2287.6	2274.1	2249.5	2233.2
12.5°	2378.8	2387.3	2381.0	2380.5	2377.7	2382.2	2376.6	2375.4	2363.1	2329.5	2307.2
15°	2500.9	2509.9	2497.0	2495.9	2480.2	2478.5	2478.5	2476.8	2469.0	2428.6	2391.7
17.5°	2641.5	2644.3	2633.1	2615.1	2595.0	2582.2	2580.5	2585.0	2585.0	2537.9	2479.0
20°	2779.3	2784.3	2775.3	2755.1	2729.4	2710.3	2696.9	2705.9	2705.3	2649.3	2565.9
22.5°	2929.3	2941.1	2927.7	2901.9	2871.6	2850.3	2826.9	2834.7	2835.3	2766.3	2651.0
25°	3123.7	3113.0	3104.6	3068.1	3025.1	3003.2	2981.4	2989.2	2987.0	2892.4	2738.9
27.5°	3295.5	3297.8	3286.6	3247.9	3198.1	3149.9	3148.8	3153.8	3145.5	3023.4	2821.8
30°	3495.4	3496.6	3480.9	3446.2	3391.9	3329.7	3315.1	3323.6	3305.6	3147.7	2909.1
32.5°	3694.2	3699.8	3682.5	3640.5	3596.8	3521.2	3492.1	3497.7	3452.9	3274.9	2999.3
35°	3868.4	3876.3	3870.7	3842.6	3795.0	3730.1	3695.4	3692.0	3636.6	3430.5	3118.5
37.5°	4045.9	4053.2	4047.0	4023.5	4004.4	3935.6	3917.2	3917.2	3820.8	3589.5	3270.4
40°	4228.5	4239.7	4232.4	4199.9	4183.7	4152.4	4108.1	4097.4	3993.3	3780.5	3517.9
42.5°	4398.2	4412.7	4441.8	4422.8	4389.7	4394.2	4305.2	4299.6	4223.5	4062.8	3828.7
45°	4638.9	4660.3	4709.5	4695.0	4688.2	4663.6	4557.8	4552.8	4523.6	4442.4	4214.5
47.5°	4901.6	4930.7	5019.7	5022.5	5094.8	5048.3	4904.4	4887.0	4893.8	4897.1	4685.4
50°	5143.5	5175.4	5321.6	5390.5	5560.7	5570.7	5340.7	5324.9	5351.3	5428.5	5234.3
52.5°	5336.7	5377.0	5559.6	5772.3	6064.1	6147.0	5877.7	5865.9	5885.5	6018.7	5854.7
55°	5478.3	5522.0	5720.8	6108.3	6574.3	6720.5	6495.9	6484.7	6497.0	6666.7	6529.5
57.5°	5511.4	5522.0	5810.4	6334.6	7005.0	7356.1	7252.5	7230.0	7169.6	7317.4	7274.3
60°	5356.3	5398.9	5736.6	6414.2	7338.1	7982.6	8043.2	8015.1	7845.5	7966.4	7931.7
62.5°	5041.6	5117.7	5460.5	6293.2	7468.6	8494.5	8818.7	8785.1	8492.8	8571.2	8404.3
65°	4527.5	4560.0	4920.1	5876.0	7302.9	8822.1	9510.4	9493.5	9125.6	9002.9	8491.7
67.5°	3608.0	3669.1	3974.8	5004.1	6624.7	8783.5	10045.1	10043.4	9538.9	9163.1	8182.1
69°	2850.3	2913.6	3204.8	4122.1	5861.9	8430.1	10134.7	10154.3	9655.3	9065.6	7739.7
70°	2272.4	2345.8	2545.7	3472.0	5185.0	7964.2	10060.2	10095.5	9632.9	8904.9	7331.4
72.5°	967.1	1026.5	1168.7	1789.7	3160.0	5947.1	9198.4	9331.7	9113.8	8150.1	6059.1
75°	422.3	440.7	505.1	729.7	1402.8	3236.8	7206.0	7452.4	7792.9	6889.0	4513.5
77.5°	309.1	316.9	352.2	428.4	629.4	1222.5	4633.9	4777.3	5620.0	5013.0	2768.6
80°	239.1	244.7	272.2	314.7	411.0	494.5	2113.4	2236.6	3160.0	2574.8	1153.0
82.5°	190.4	194.3	213.3	231.9	283.9	299.6	701.6	778.4	1166.5	711.1	305.2
85°	177.0	181.5	188.2	169.1	182.0	175.9	303.5	317.5	352.2	279.5	127.7
87.5°	80.1	94.6	186.5	131.6	96.9	77.3	124.4	130.0	146.2	146.7	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382983  
 CATALOG NUMBER: GLEON-SA3B-735-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1	2125.1
2.5°	2130.2	2128.5	2131.3	2124.6	2133.0	2132.4	2129.6	2130.7	2136.3	2135.8	2136.3
5°	2143.1	2142.0	2145.4	2140.3	2150.4	2153.7	2154.3	2159.3	2165.5	2167.2	2167.2
7.5°	2175.5	2175.5	2177.2	2170.5	2177.2	2176.7	2173.9	2178.9	2185.0	2185.6	2185.0
10°	2231.5	2232.1	2229.3	2212.0	2206.4	2191.3	2177.2	2177.8	2185.6	2191.8	2193.5
12.5°	2302.1	2299.9	2287.6	2255.6	2232.1	2201.3	2186.8	2186.2	2194.1	2199.1	2200.8
15°	2382.7	2376.6	2344.7	2292.6	2251.2	2220.9	2197.4	2191.8	2187.4	2181.7	2182.2
17.5°	2458.9	2444.9	2391.7	2319.5	2275.8	2235.4	2190.2	2153.7	2128.5	2114.0	2109.5
20°	2536.2	2508.8	2432.0	2344.7	2289.3	2215.9	2128.5	2054.6	2008.7	1987.4	1983.5
22.5°	2606.7	2562.5	2469.5	2371.0	2278.6	2149.8	2012.6	1905.1	1841.2	1812.7	1814.9
25°	2675.6	2614.0	2508.8	2389.5	2224.8	2033.3	1851.4	1719.2	1645.2	1613.3	1612.2
27.5°	2736.1	2666.1	2551.3	2374.3	2124.6	1867.6	1660.4	1531.6	1470.0	1442.5	1438.0
30°	2805.5	2731.7	2607.9	2316.7	1977.9	1676.0	1473.9	1383.2	1339.5	1312.1	1307.1
32.5°	2890.1	2820.6	2654.4	2212.0	1790.2	1476.1	1328.3	1265.0	1225.3	1194.4	1188.8
35°	3013.3	2938.3	2666.1	2061.9	1584.2	1318.2	1221.4	1156.4	1102.6	1062.9	1059.0
37.5°	3167.8	3085.6	2639.3	1867.6	1384.3	1215.8	1132.3	1052.2	982.2	926.2	917.3
40°	3390.7	3266.4	2564.7	1643.5	1237.0	1136.8	1045.5	954.2	867.5	801.9	789.0
42.5°	3658.4	3478.7	2450.5	1420.7	1128.9	1056.7	959.3	846.1	763.3	716.8	710.0
45°	3998.9	3699.3	2292.1	1225.8	1022.6	976.6	866.3	762.2	710.6	676.5	670.9
47.5°	4387.5	3946.8	2125.7	1067.4	932.4	901.6	791.8	724.7	683.8	656.8	651.8
50°	4865.2	4226.2	1949.4	937.4	841.7	811.5	756.5	703.9	671.5	650.7	645.7
52.5°	5403.9	4541.5	1822.2	834.9	766.7	744.8	738.1	692.7	666.4	650.7	645.7
55°	5984.1	4862.4	1685.0	748.7	701.6	707.8	725.8	693.8	675.9	656.8	649.6
57.5°	6564.8	5193.9	1532.1	675.9	650.1	680.4	717.4	696.1	681.0	662.4	655.7
60°	7024.0	5403.9	1295.2	614.9	609.2	650.1	697.2	679.3	659.6	660.2	659.1
62.5°	7238.4	5392.7	1033.7	560.5	568.4	609.2	664.8	652.9	636.7	658.5	660.2
65°	7118.0	5123.9	804.7	511.2	524.7	566.8	631.1	640.1	645.7	687.7	693.3
67.5°	6613.0	4600.9	623.3	468.2	485.0	537.6	634.5	697.2	704.4	748.7	748.1
69°	6090.5	4110.4	541.5	445.7	465.3	544.9	678.2	733.6	706.1	753.2	746.4
70°	5652.5	3722.3	497.8	430.7	456.4	557.7	707.2	733.0	697.7	738.1	726.9
72.5°	4353.4	2677.8	422.3	402.6	426.2	533.7	715.7	716.8	678.2	686.0	667.0
75°	2985.9	1692.2	368.4	364.5	380.3	481.1	688.8	684.9	627.2	616.0	600.3
77.5°	1646.4	859.5	313.0	328.2	338.8	426.2	626.1	620.5	572.9	549.3	543.7
80°	635.0	376.3	264.3	291.8	298.5	369.1	548.8	543.7	504.0	473.8	465.3
82.5°	239.7	197.1	218.4	252.5	250.3	304.6	464.7	462.0	423.4	379.1	365.6
85°	110.9	118.1	173.1	208.3	192.1	225.7	371.9	376.9	329.9	277.2	277.2
87.5°	47.0	66.0	122.6	157.3	129.4	152.3	272.8	260.4	239.1	165.7	155.7
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)