

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: P594714

Luminaire Tested: **ISS-PA1D-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-735-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8135 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

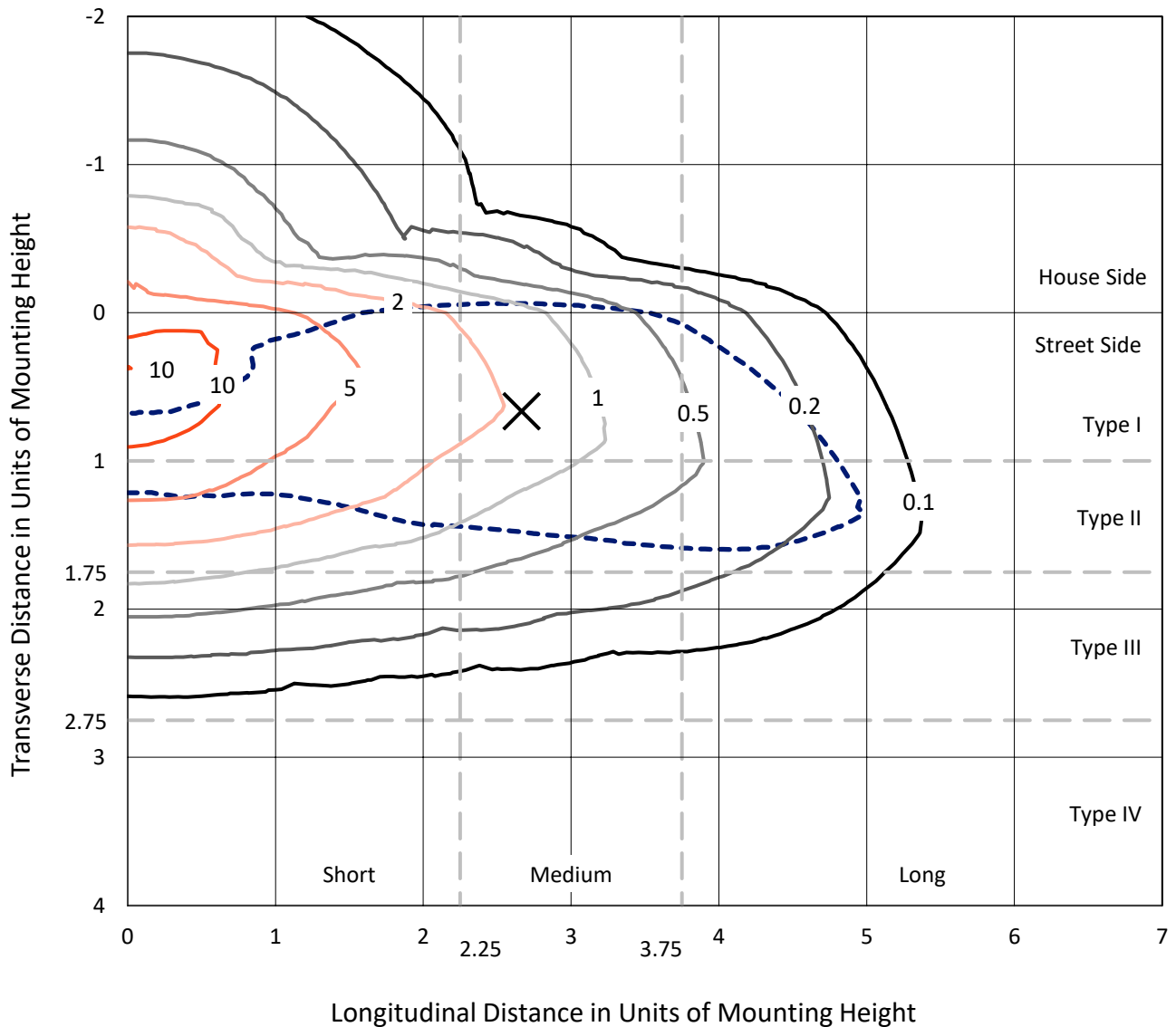
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594714  
 CATALOG NUMBER: ISS-PA1D-735-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

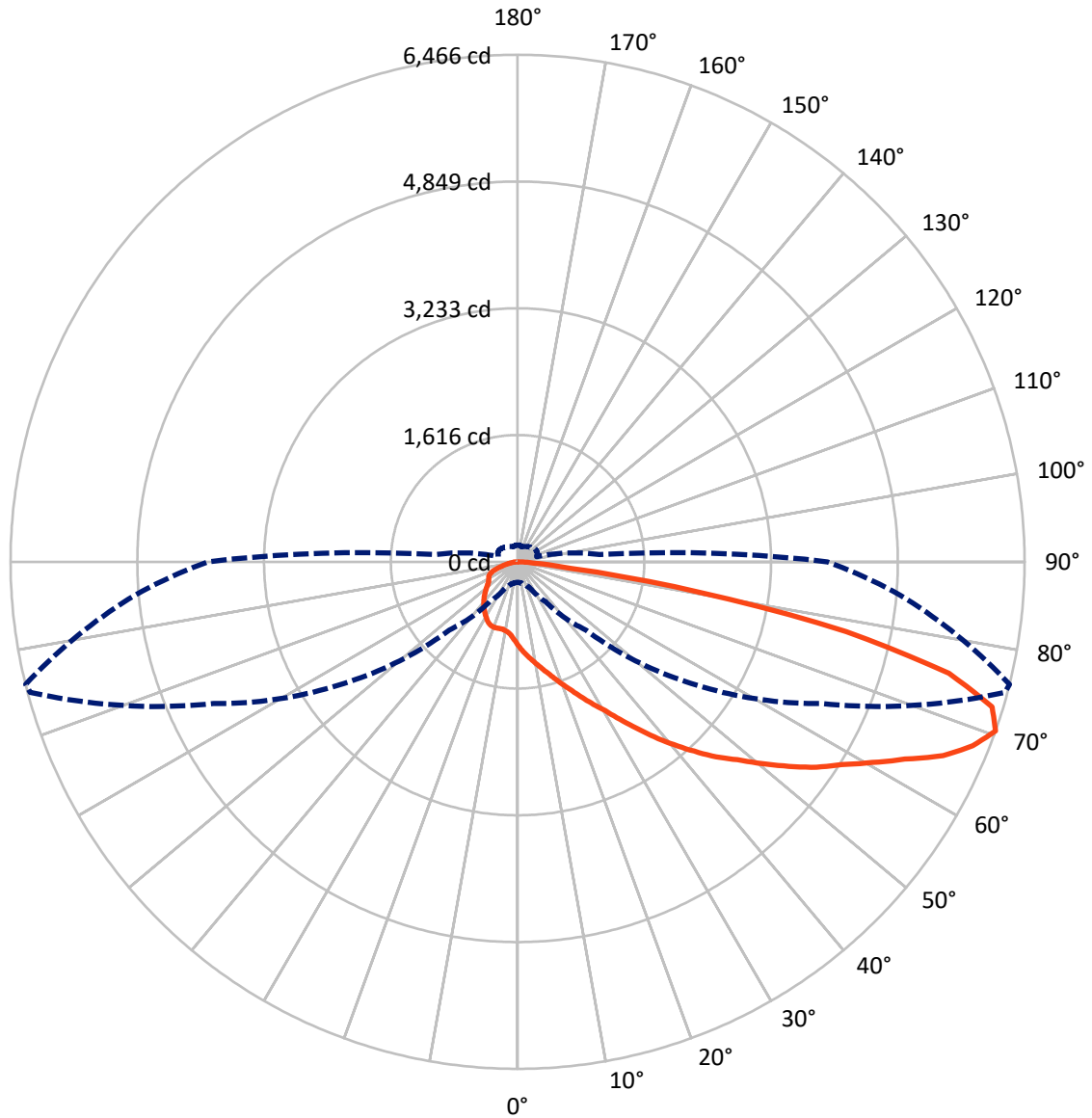
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: ISS-PA1D-735-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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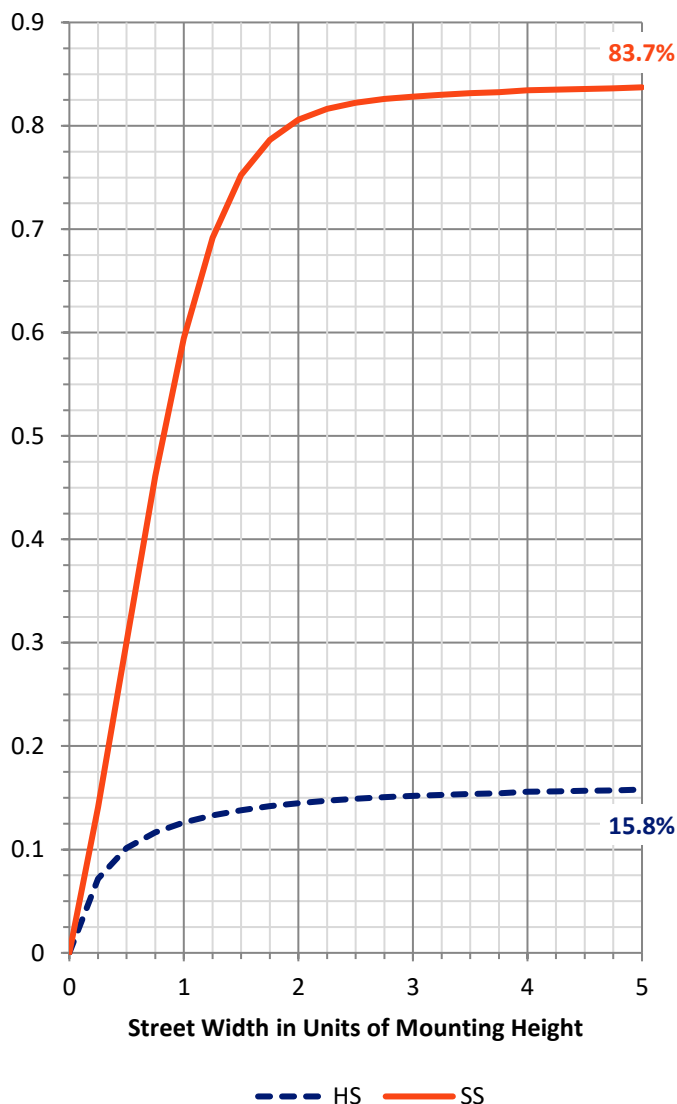
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1304.8	0.0	1304.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	6830.2	0.0	6830.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	8135.0	0.0	8135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	1.3
10°-20°	343.2	4.2
20°-30°	632.5	7.8
30°-40°	1059.8	13.0
40°-50°	1505.9	18.5
50°-60°	1738.6	21.4
60°-70°	1598.3	19.6
70°-80°	1007.8	12.4
80°-90°	145.0	1.8
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°	8135.0	100.0
0°-180°	8135.0	100.0

**Coefficient of Utilization**

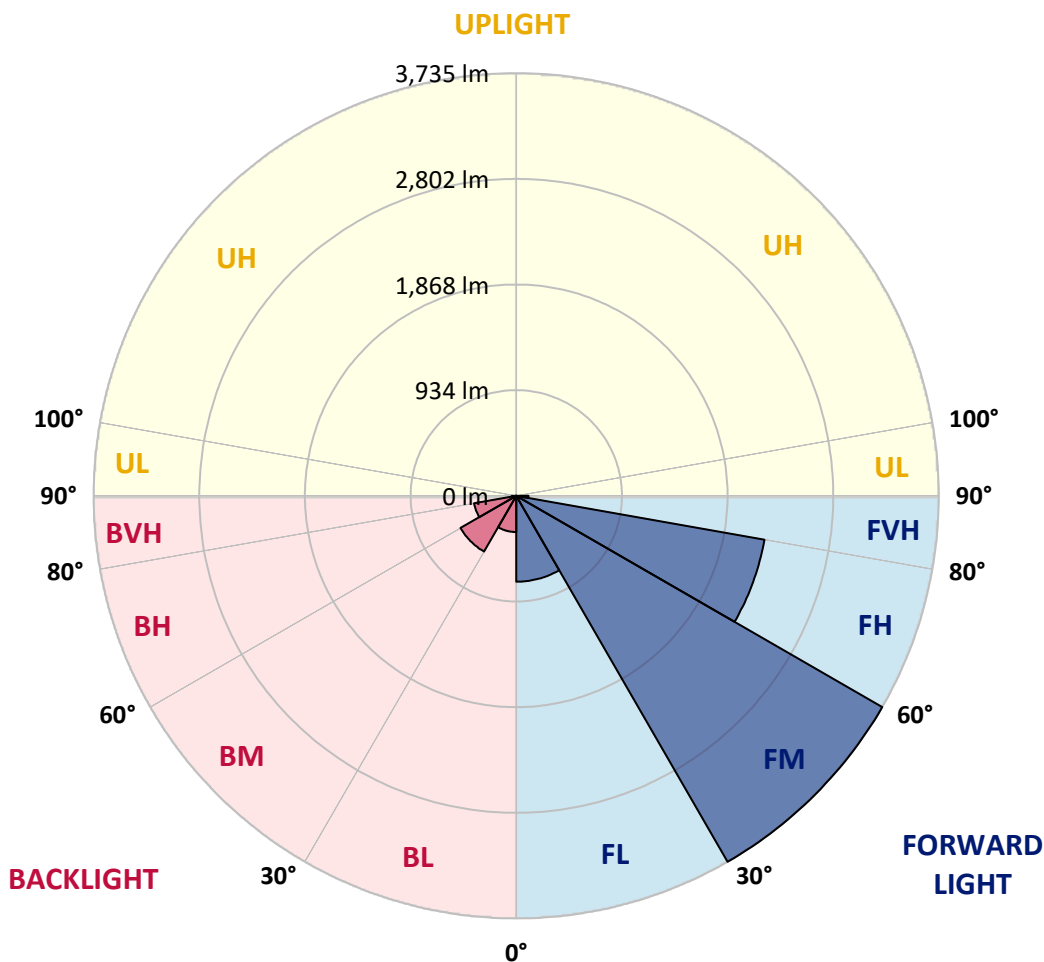


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 CATALOG NUMBER: ISS-PA1D-735-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.5	9.3			
FM (30°-60°)	3735.4	45.9			
FH (60°-80°)	2227.9	27.4			G2/5000
FVH (80°-90°)	107.4	1.3			G2/225
BL (0°-30°)	320.3	3.9	B1/500		
BM (30°-60°)	568.8	7.0	B1/1000		
BH (60°-80°)	378.2	4.6	B1/500		G1/500
BVH (80°-90°)	37.5	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 Medium





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CATALOG NUMBER: ISS-PA1D-735-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1284.5	1282.6	1276.7	1266.9	1259.1	1235.6	1204.3	1176.8	1135.7	1131.8	1090.7
5°	1400.1	1392.2	1392.2	1382.5	1372.7	1347.2	1308.0	1259.1	1200.3	1196.4	1118.1
7.5°	1454.9	1456.9	1452.9	1445.1	1447.1	1425.5	1390.3	1341.3	1261.0	1257.1	1155.3
10°	1533.2	1531.3	1523.4	1517.6	1515.6	1496.0	1464.7	1419.7	1335.5	1327.6	1198.4
12.5°	1609.6	1603.7	1605.7	1603.7	1599.8	1580.2	1550.9	1505.8	1402.0	1398.1	1251.3
15°	1652.7	1650.7	1664.4	1668.3	1684.0	1666.4	1640.9	1590.0	1496.0	1480.4	1313.9
17.5°	1680.1	1678.1	1691.8	1723.2	1752.5	1752.5	1744.7	1689.9	1586.1	1574.4	1384.4
20°	1727.1	1734.9	1758.4	1783.9	1827.0	1834.8	1832.8	1809.3	1689.9	1678.1	1462.7
22.5°	1821.1	1817.2	1836.7	1875.9	1915.1	1926.8	1928.8	1928.8	1809.3	1787.8	1543.0
25°	2022.8	2013.0	1997.3	1993.4	2040.4	2038.4	2032.6	2046.3	1934.7	1919.0	1635.1
27.5°	2406.6	2385.0	2324.3	2202.9	2175.5	2185.3	2155.9	2157.9	2077.6	2058.0	1713.4
30°	2770.8	2761.0	2704.2	2557.3	2402.6	2347.8	2296.9	2275.4	2236.2	2202.9	1797.6
32.5°	3099.7	3101.7	3033.2	2872.6	2714.0	2541.7	2453.6	2408.5	2424.2	2394.8	1913.1
35°	3323.0	3305.4	3262.3	3154.6	2982.3	2817.8	2649.4	2549.5	2633.7	2600.4	2028.6
37.5°	3454.2	3440.5	3405.2	3328.9	3242.7	3084.1	2870.6	2717.9	2882.4	2833.4	2175.5
40°	3520.8	3501.2	3465.9	3434.6	3393.5	3307.3	3119.3	2909.8	3109.5	3066.5	2320.4
42.5°	3528.6	3514.9	3495.3	3479.6	3493.3	3481.6	3362.1	3133.0	3348.4	3301.4	2486.8
45°	3522.7	3532.5	3509.0	3481.6	3509.0	3608.9	3608.9	3356.3	3585.4	3550.1	2645.5
47.5°	3526.6	3516.8	3509.0	3501.2	3505.1	3642.2	3779.2	3565.8	3812.5	3771.4	2831.5
50°	3364.1	3377.8	3444.4	3473.8	3491.4	3650.0	3916.3	3792.9	4094.5	4043.6	3039.0
52.5°	2847.1	2855.0	3158.5	3377.8	3448.3	3618.7	4012.2	4045.5	4372.5	4333.4	3262.3
55°	2193.1	2234.2	2522.1	3058.6	3350.4	3565.8	4041.6	4210.0	4656.5	4625.1	3487.5
57.5°	1805.4	1811.3	1977.7	2457.5	3041.0	3516.8	4071.0	4360.8	4911.0	4875.8	3722.4
60°	1498.0	1484.3	1586.1	1895.5	2526.0	3321.0	4076.9	4480.2	5206.7	5195.0	3965.2
62.5°	1100.5	1116.1	1214.1	1476.4	1975.8	2923.5	4047.5	4582.1	5559.2	5543.5	4235.5
65°	675.6	695.1	814.6	1055.4	1496.0	2320.4	3855.6	4634.9	5929.3	5964.5	4527.2
67.5°	358.3	372.0	442.5	638.4	1026.1	1768.2	3393.5	4568.4	6242.6	6258.2	4807.3
70°	262.4	264.3	287.8	360.3	618.8	1229.7	2702.2	4278.6	6434.5	6465.8	4899.3
72.5°	229.1	231.1	240.9	258.5	336.8	750.0	1936.6	3773.4	6354.2	6326.8	4744.6
75°	207.6	207.6	215.4	221.3	246.7	415.1	1186.6	3088.0	5741.3	5680.6	4045.5
77.5°	178.2	178.2	186.0	193.9	213.4	268.3	620.7	2289.1	4390.2	4286.4	2766.9
80°	142.9	142.9	152.7	162.5	188.0	201.7	303.5	1531.3	2510.3	2357.6	1259.1
82.5°	97.9	105.7	123.4	135.1	156.7	142.9	178.2	661.9	791.1	685.4	283.9
85°	58.7	62.7	88.1	101.8	117.5	76.4	109.7	254.6	236.9	207.6	64.6
87.5°	5.9	9.8	35.2	41.1	41.1	21.5	47.0	60.7	68.5	70.5	15.7
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: P594714  
 CATALOG NUMBER: ISS-PA1D-735-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1067.2	1043.7	998.7	957.5	916.4	889.0	861.6	851.8	838.1	828.3	836.1
5°	1077.0	1028.0	941.9	869.4	820.5	783.3	765.6	755.8	748.0	746.1	744.1
7.5°	1088.7	1016.3	900.7	820.5	773.5	755.8	751.9	751.9	751.9	753.9	755.8
10°	1114.2	1020.2	879.2	793.0	767.6	763.7	765.6	773.5	773.5	775.4	775.4
12.5°	1143.6	1030.0	863.5	789.1	773.5	775.4	777.4	781.3	781.3	787.2	785.2
15°	1186.6	1049.6	861.6	793.0	779.3	775.4	775.4	773.5	773.5	773.5	777.4
17.5°	1241.5	1077.0	863.5	793.0	773.5	765.6	759.8	753.9	746.1	750.0	746.1
20°	1296.3	1110.3	863.5	783.3	757.8	738.2	720.6	710.8	701.0	699.1	701.0
22.5°	1364.8	1149.4	853.8	761.7	724.5	697.1	671.6	657.9	642.3	636.4	632.5
25°	1423.6	1180.8	834.2	730.4	687.3	648.1	614.9	591.4	571.8	567.9	567.9
27.5°	1484.3	1208.2	804.8	691.2	634.4	591.4	554.2	524.8	505.2	503.2	501.3
30°	1541.1	1231.7	765.6	648.1	587.4	536.5	493.5	468.0	450.4	440.6	434.7
32.5°	1615.5	1263.0	728.4	605.1	532.6	481.7	442.5	421.0	397.5	381.8	376.0
35°	1709.5	1300.2	687.3	558.1	483.7	432.8	409.3	377.9	348.6	330.9	325.1
37.5°	1815.2	1353.1	644.2	509.1	434.7	397.5	383.8	334.8	303.5	297.6	295.7
40°	1946.4	1404.0	595.3	458.2	387.7	377.9	354.4	303.5	287.8	285.9	283.9
42.5°	2077.6	1458.8	548.3	407.3	350.5	354.4	321.1	295.7	282.0	278.1	276.1
45°	2230.3	1513.6	501.3	362.3	321.1	321.1	303.5	287.8	276.1	272.2	272.2
47.5°	2390.9	1568.5	450.4	323.1	299.6	287.8	289.8	278.1	270.2	266.3	264.3
50°	2592.6	1621.3	403.4	295.7	285.9	270.2	276.1	268.3	264.3	260.4	258.5
52.5°	2782.5	1644.8	360.3	280.0	278.1	262.4	264.3	260.4	258.5	252.6	250.6
55°	2968.6	1639.0	327.0	272.2	268.3	260.4	256.5	254.6	252.6	246.7	244.8
57.5°	3176.1	1631.1	305.5	270.2	262.4	254.6	254.6	248.7	240.9	240.9	240.9
60°	3391.5	1605.7	295.7	270.2	260.4	254.6	250.6	244.8	236.9	238.9	236.9
62.5°	3634.3	1556.7	289.8	276.1	262.4	252.6	248.7	240.9	231.1	233.0	231.1
65°	3847.8	1456.9	285.9	282.0	266.3	254.6	244.8	235.0	223.2	225.2	223.2
67.5°	3992.7	1288.5	274.1	285.9	272.2	252.6	240.9	227.1	211.5	219.3	217.4
70°	3951.5	1047.6	252.6	278.1	278.1	254.6	235.0	217.4	199.7	215.4	209.5
72.5°	3632.4	787.2	211.5	250.6	274.1	254.6	223.2	201.7	186.0	195.8	184.1
75°	2982.3	534.6	168.4	199.7	256.5	256.5	213.4	186.0	166.4	160.6	156.7
77.5°	1860.2	332.9	131.2	146.9	215.4	254.6	203.6	166.4	139.0	135.1	131.2
80°	736.3	178.2	103.8	105.7	158.6	233.0	189.9	141.0	111.6	107.7	99.9
82.5°	168.4	90.1	72.5	70.5	97.9	189.9	172.3	111.6	86.2	86.2	72.5
85°	50.9	47.0	47.0	45.0	49.0	97.9	133.2	76.4	58.7	41.1	35.2
87.5°	13.7	19.6	17.6	15.7	15.7	13.7	43.1	19.6	11.7	5.9	3.9
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)