

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: P595296

Luminaire Tested: **IST-PA1E-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1E-735-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9457 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

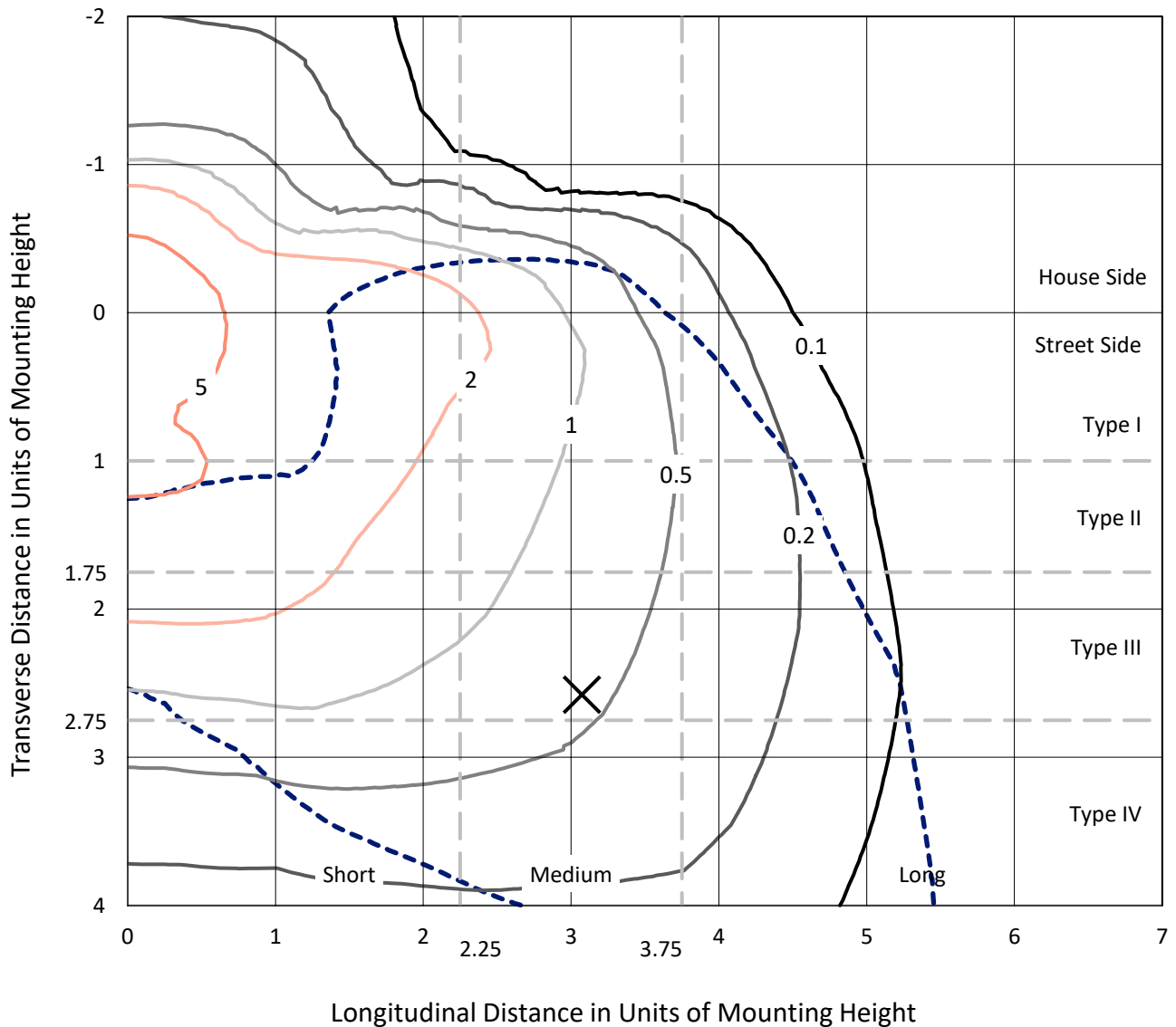
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

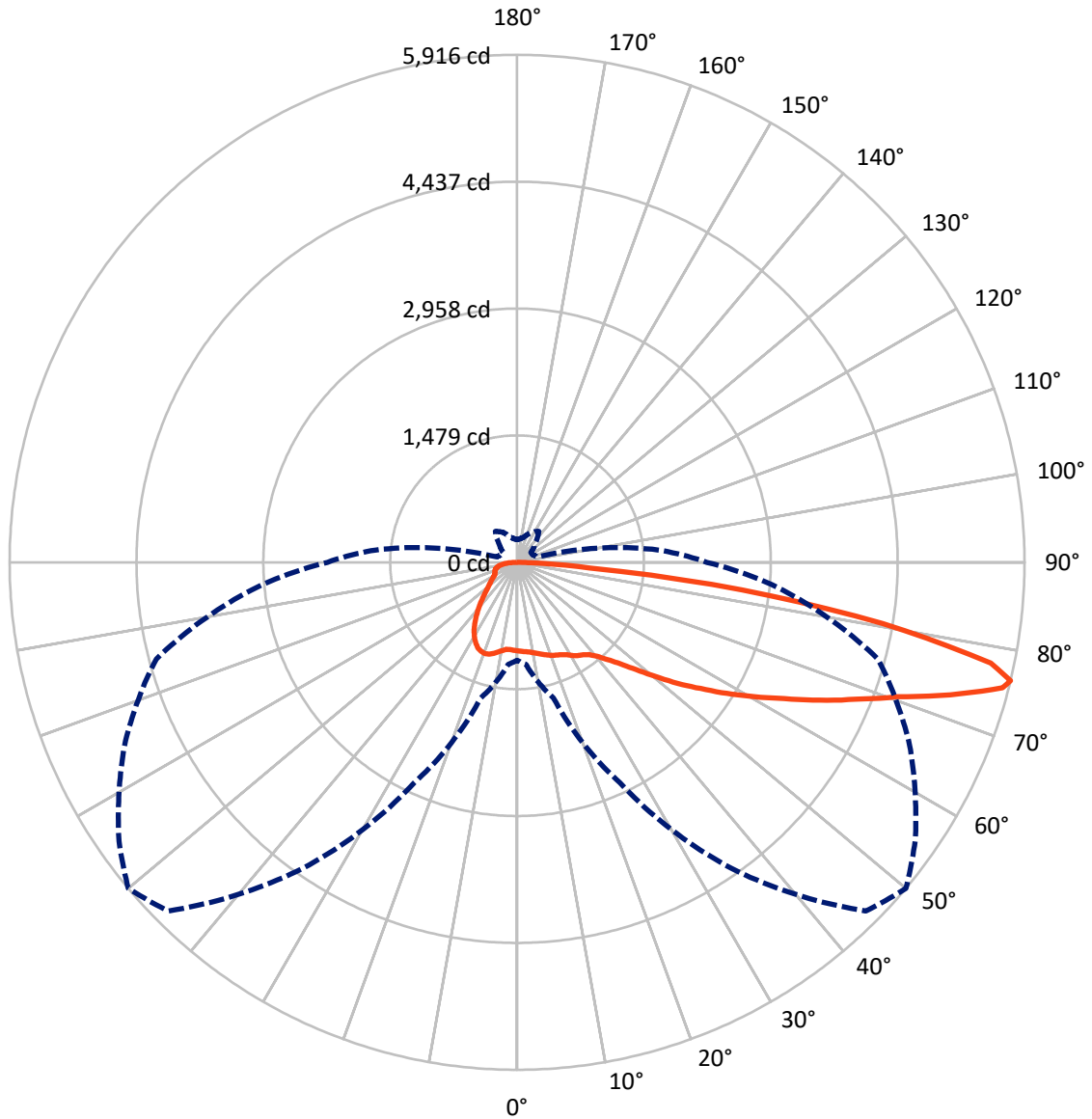
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 76-Deg Vertical

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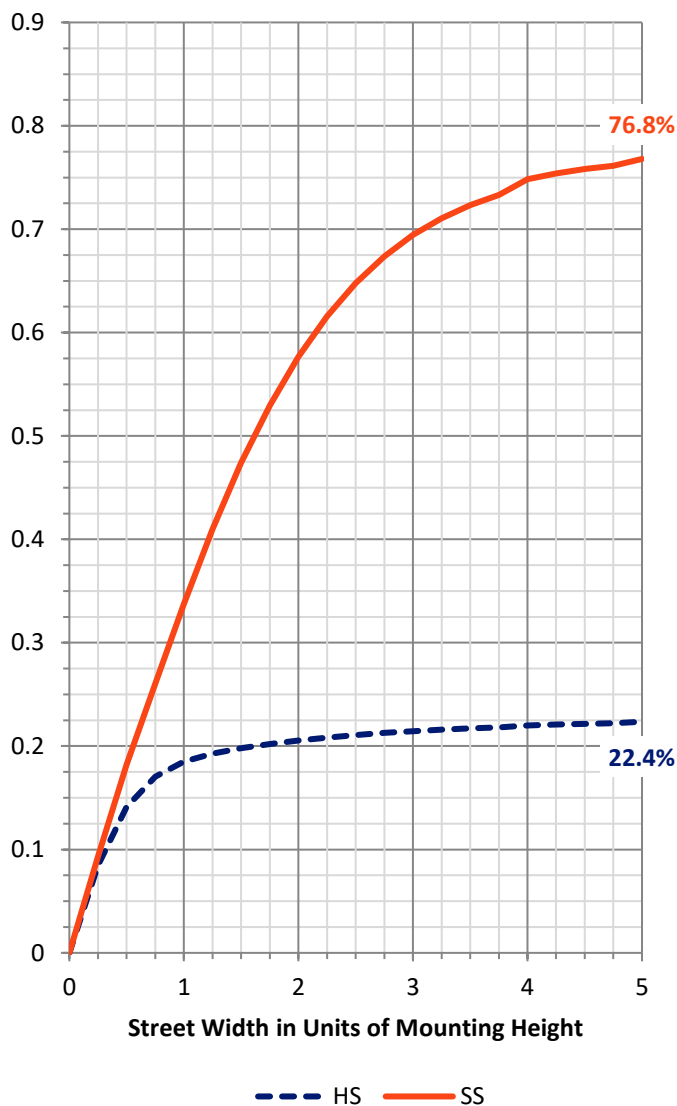
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2163.4	0.0	2163.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7293.6	0.0	7293.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9457.0	0.0	9457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.1
10°-20°	314.7	3.3
20°-30°	531.6	5.6
30°-40°	728.6	7.7
40°-50°	1073.1	11.3
50°-60°	1688.1	17.9
60°-70°	2429.9	25.7
70°-80°	2209.4	23.4
80°-90°	381.4	4.0
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°	9457.0	100.0
0°-180°	9457.0	100.0

**Coefficient of Utilization**

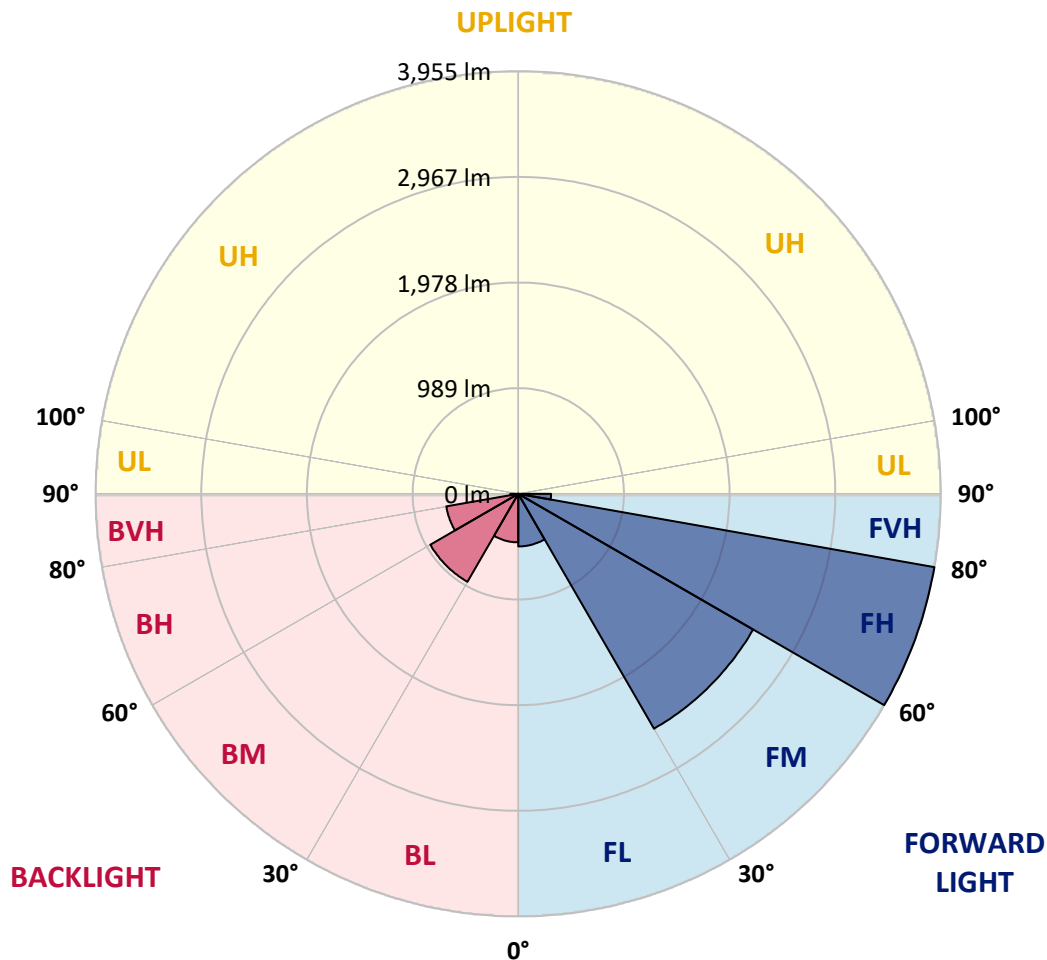


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.2	5.2			
FM (30°-60°)	2539.0	26.8			
FH (60°-80°)	3955.3	41.8			G2/5000
FVH (80°-90°)	307.0	3.2			G3/500
BL (0°-30°)	454.2	4.8	B1/500		
BM (30°-60°)	950.8	10.1	B1/1000		
BH (60°-80°)	684.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	74.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8
2.5°	1054.0	1054.0	1056.3	1051.6	1051.6	1040.1	1040.1	1037.7	1033.1	1030.8	1026.2
5°	1093.3	1093.3	1086.4	1074.8	1067.9	1054.0	1047.0	1042.4	1033.1	1021.5	1009.9
7.5°	1135.0	1130.4	1125.8	1107.2	1093.3	1067.9	1056.3	1049.3	1030.8	1014.6	1007.6
10°	1179.0	1172.1	1160.5	1137.3	1116.5	1086.4	1072.5	1063.2	1042.4	1028.5	1012.3
12.5°	1204.5	1204.5	1190.6	1162.8	1135.0	1098.0	1091.0	1079.4	1058.6	1040.1	1023.8
15°	1230.0	1232.3	1218.4	1186.0	1153.6	1125.8	1114.2	1107.2	1084.1	1056.3	1035.4
17.5°	1255.5	1253.2	1239.3	1202.2	1167.5	1142.0	1135.0	1125.8	1102.6	1077.1	1056.3
20°	1274.0	1269.4	1264.7	1218.4	1183.7	1167.5	1158.2	1151.2	1128.1	1100.3	1072.5
22.5°	1278.6	1283.3	1278.6	1223.1	1195.3	1176.7	1174.4	1167.5	1148.9	1123.4	1095.7
25°	1281.0	1283.3	1290.2	1236.9	1211.5	1197.6	1192.9	1188.3	1174.4	1153.6	1116.5
27.5°	1292.5	1294.9	1294.9	1246.2	1232.3	1223.1	1218.4	1218.4	1211.5	1186.0	1148.9
30°	1294.9	1297.2	1301.8	1269.4	1264.7	1257.8	1260.1	1257.8	1246.2	1218.4	1176.7
32.5°	1311.1	1313.4	1325.0	1283.3	1287.9	1294.9	1297.2	1294.9	1271.7	1248.5	1213.8
35°	1364.4	1362.0	1371.3	1318.0	1313.4	1315.7	1322.7	1320.3	1311.1	1290.2	1267.1
37.5°	1535.8	1535.8	1510.3	1399.1	1364.4	1359.7	1364.4	1375.9	1378.2	1359.7	1341.2
40°	1836.9	1820.7	1806.8	1565.9	1454.7	1426.9	1440.8	1447.7	1466.3	1466.3	1466.3
42.5°	2147.3	2149.6	2145.0	1825.3	1616.8	1547.3	1549.7	1565.9	1605.3	1612.2	1633.1
45°	2422.9	2439.2	2473.9	2126.4	1855.4	1700.2	1684.0	1700.2	1755.8	1802.1	1855.4
47.5°	2638.4	2619.8	2696.3	2441.5	2128.8	1908.7	1867.0	1871.6	1948.1	2022.2	2105.6
50°	2823.7	2828.3	2863.1	2763.4	2473.9	2145.0	2089.4	2080.1	2189.0	2267.7	2409.0
52.5°	3032.1	3018.3	3069.2	3046.0	2809.8	2434.5	2346.5	2318.7	2436.8	2548.0	2700.9
55°	3131.8	3145.7	3249.9	3307.8	3127.1	2694.0	2596.7	2605.9	2731.0	2849.2	3062.3
57.5°	3307.8	3321.7	3442.1	3562.6	3409.7	2969.6	2883.9	2883.9	3025.2	3157.2	3486.2
60°	3548.7	3551.0	3673.8	3882.3	3657.6	3236.0	3180.4	3178.1	3331.0	3483.8	3986.5
62.5°	3655.3	3683.1	3866.0	4137.1	3981.9	3562.6	3497.7	3516.3	3652.9	3831.3	4544.7
65°	3511.6	3571.9	3954.1	4308.5	4271.4	3903.1	3877.6	3903.1	3986.5	4178.8	5135.4
67.5°	3036.8	3117.9	3791.9	4424.3	4503.1	4296.9	4259.8	4255.2	4308.5	4523.9	5508.4
70°	2791.2	2839.9	3363.4	4468.3	4688.4	4695.3	4695.3	4665.2	4658.3	4815.8	5543.1
72.5°	2297.9	2348.8	2837.6	4222.8	4864.4	5228.1	5281.4	5170.2	4998.8	4966.3	4961.7
75°	1637.7	1674.7	2096.3	3321.7	4639.7	5740.0	5846.6	5631.1	5154.0	4637.4	3618.2
76°	1142.0	1195.3	1637.7	2837.6	4357.1	5749.3	5916.0	5665.9	5049.7	4354.8	2981.2
77.5°	579.1	597.6	947.4	1906.4	3646.0	5485.2	5647.3	5367.1	4595.7	3518.6	1892.5
80°	220.1	227.0	338.2	694.9	2001.4	4259.8	4322.4	3944.8	3041.4	1503.3	681.0
82.5°	115.8	120.5	189.9	342.8	822.3	2341.9	2643.0	2200.6	1192.9	451.7	199.2
85°	57.9	62.5	111.2	208.5	407.7	732.0	847.8	801.5	396.1	171.4	74.1
87.5°	23.2	27.8	55.6	92.7	164.5	143.6	159.8	206.2	127.4	81.1	25.5
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°	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8	1030.8
2.5°	1026.2	1023.8	1026.2	1023.8	1026.2	1026.2	1028.5	1023.8	1023.8	1028.5	1021.5
5°	1009.9	1007.6	1009.9	1014.6	1016.9	1021.5	1030.8	1028.5	1033.1	1037.7	1040.1
7.5°	1003.0	1000.7	1007.6	1009.9	1016.9	1026.2	1040.1	1049.3	1054.0	1063.2	1058.6
10°	1009.9	1009.9	1019.2	1026.2	1037.7	1049.3	1060.9	1070.2	1081.8	1088.7	1086.4
12.5°	1021.5	1019.2	1035.4	1044.7	1060.9	1072.5	1081.8	1086.4	1095.7	1104.9	1102.6
15°	1033.1	1035.4	1058.6	1077.1	1095.7	1100.3	1102.6	1098.0	1102.6	1107.2	1107.2
17.5°	1056.3	1058.6	1084.1	1104.9	1121.1	1116.5	1104.9	1093.3	1093.3	1095.7	1098.0
20°	1074.8	1079.4	1109.5	1128.1	1137.3	1118.8	1100.3	1086.4	1079.4	1081.8	1079.4
22.5°	1095.7	1104.9	1135.0	1144.3	1130.4	1107.2	1084.1	1065.5	1065.5	1067.9	1067.9
25°	1121.1	1125.8	1146.6	1142.0	1116.5	1081.8	1063.2	1056.3	1054.0	1056.3	1058.6
27.5°	1144.3	1146.6	1158.2	1125.8	1077.1	1040.1	1033.1	1035.4	1037.7	1040.1	1042.4
30°	1174.4	1179.0	1167.5	1102.6	1028.5	986.8	986.8	1000.7	1005.3	1012.3	1009.9
32.5°	1211.5	1216.1	1181.4	1072.5	965.9	924.2	926.6	947.4	961.3	965.9	968.2
35°	1274.0	1264.7	1190.6	1030.8	898.8	847.8	850.1	875.6	894.1	901.1	896.4
37.5°	1350.5	1348.1	1204.5	977.5	815.4	769.0	771.4	782.9	801.5	803.8	806.1
40°	1477.9	1459.3	1227.7	908.0	732.0	688.0	683.3	690.3	688.0	692.6	694.9
42.5°	1660.8	1612.2	1257.8	829.3	657.9	611.5	606.9	595.3	581.4	567.5	560.6
45°	1876.3	1799.8	1294.9	748.2	581.4	539.7	528.1	514.2	486.4	456.3	447.1
47.5°	2154.2	2008.3	1336.6	667.1	509.6	477.2	467.9	447.1	414.6	379.9	372.9
50°	2439.2	2253.8	1378.2	599.9	451.7	433.2	423.9	403.1	361.4	328.9	322.0
52.5°	2770.4	2497.1	1422.3	539.7	400.7	400.7	393.8	361.4	322.0	291.9	287.2
55°	3152.6	2747.2	1491.8	481.8	363.7	372.9	363.7	331.2	294.2	273.3	271.0
57.5°	3608.9	3064.6	1579.8	419.3	331.2	338.2	338.2	315.0	289.5	275.6	273.3
60°	4067.6	3386.6	1635.4	372.9	305.8	312.7	326.6	315.0	298.8	291.9	289.5
62.5°	4507.7	3715.5	1540.4	333.6	280.3	301.1	335.9	338.2	322.0	324.3	324.3
65°	4836.6	3965.7	1246.2	298.8	264.1	308.1	363.7	366.0	338.2	331.2	328.9
67.5°	4950.1	4035.1	838.5	275.6	254.8	312.7	396.1	386.8	338.2	324.3	317.3
70°	4734.7	3780.3	544.4	254.8	240.9	308.1	421.6	398.4	335.9	315.0	305.8
72.5°	3970.3	3224.4	363.7	236.3	227.0	303.4	437.8	398.4	328.9	298.8	289.5
75°	2756.5	2202.9	271.0	213.1	206.2	296.5	442.4	391.5	312.7	280.3	273.3
76°	2212.1	1651.6	245.5	203.8	196.9	291.9	440.1	384.5	301.1	271.0	264.1
77.5°	1396.8	949.7	206.2	187.6	183.0	282.6	430.8	368.3	284.9	254.8	247.9
80°	488.8	347.5	157.5	152.9	155.2	261.8	405.4	335.9	252.5	224.7	215.4
82.5°	194.6	159.8	118.1	118.1	122.8	224.7	366.0	296.5	220.1	185.3	171.4
85°	76.4	69.5	83.4	83.4	88.0	183.0	305.8	231.6	150.6	115.8	111.2
87.5°	23.2	32.4	37.1	39.4	41.7	92.7	173.7	101.9	67.2	48.6	39.4
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)