

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: P594297

Luminaire Tested: **ISC-PA1E-730-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594297  
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: ISC-PA1E-730-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 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: 9466 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

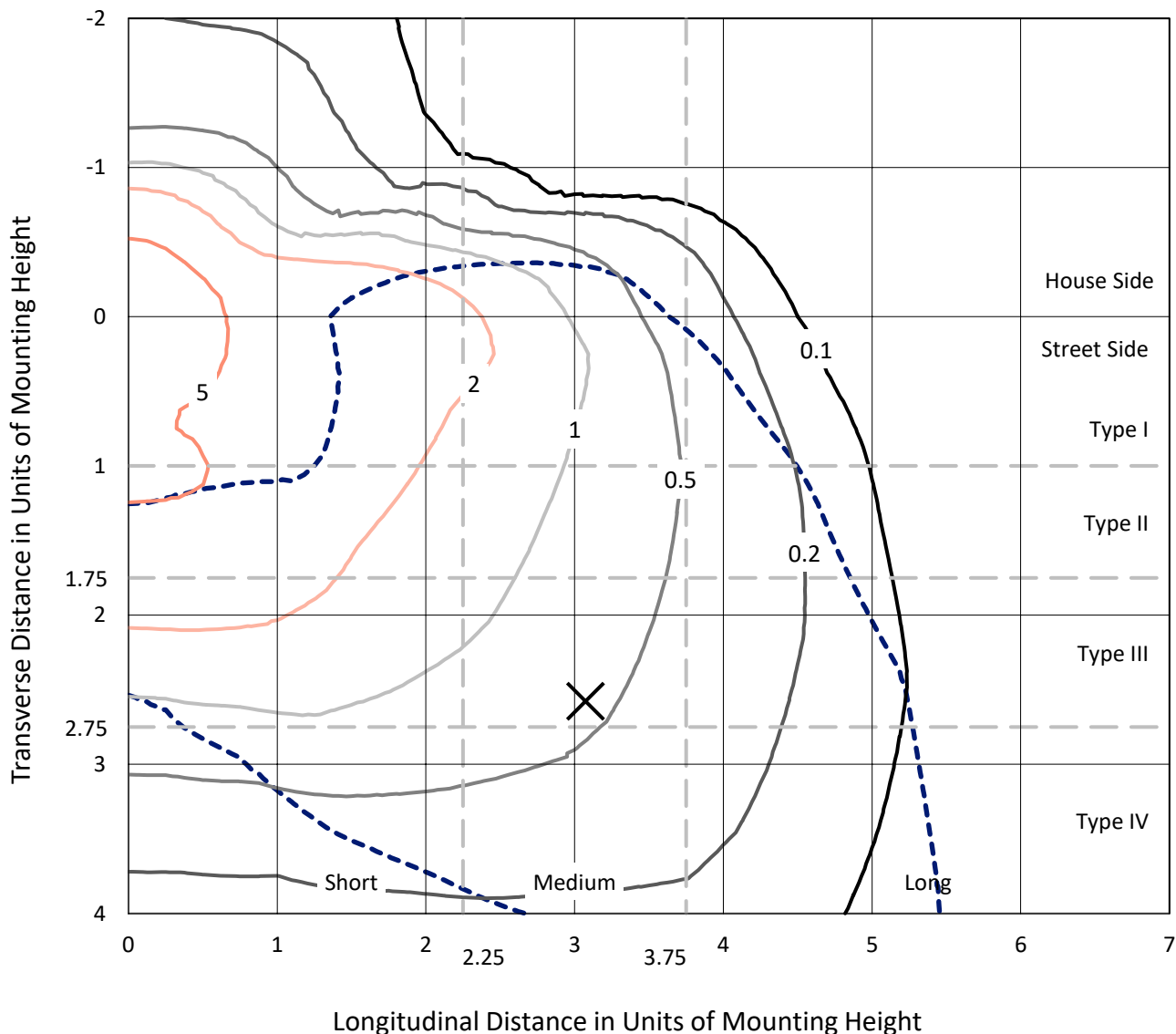
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

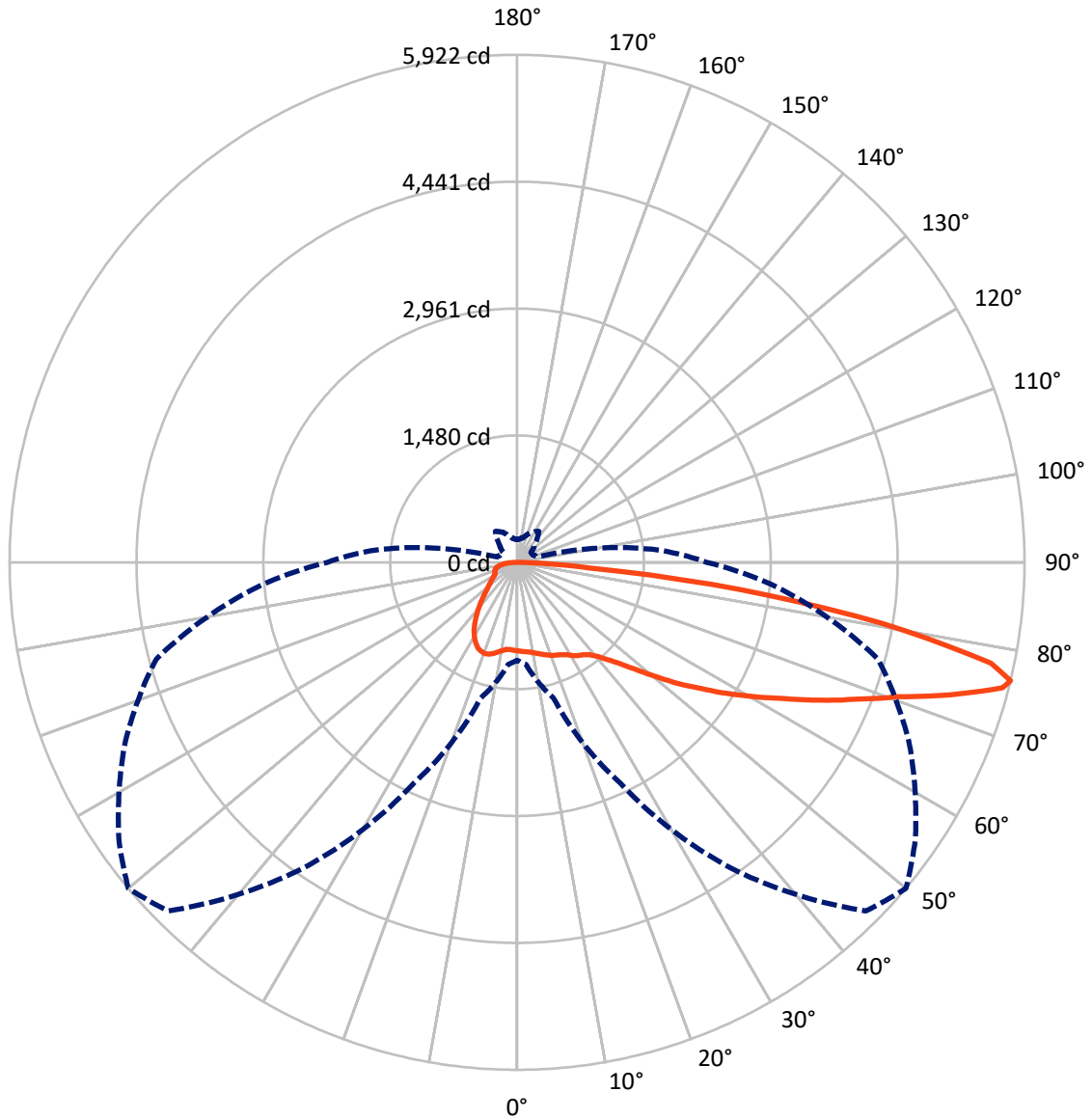
× Max cd  
 - - - 1/2 Max cd



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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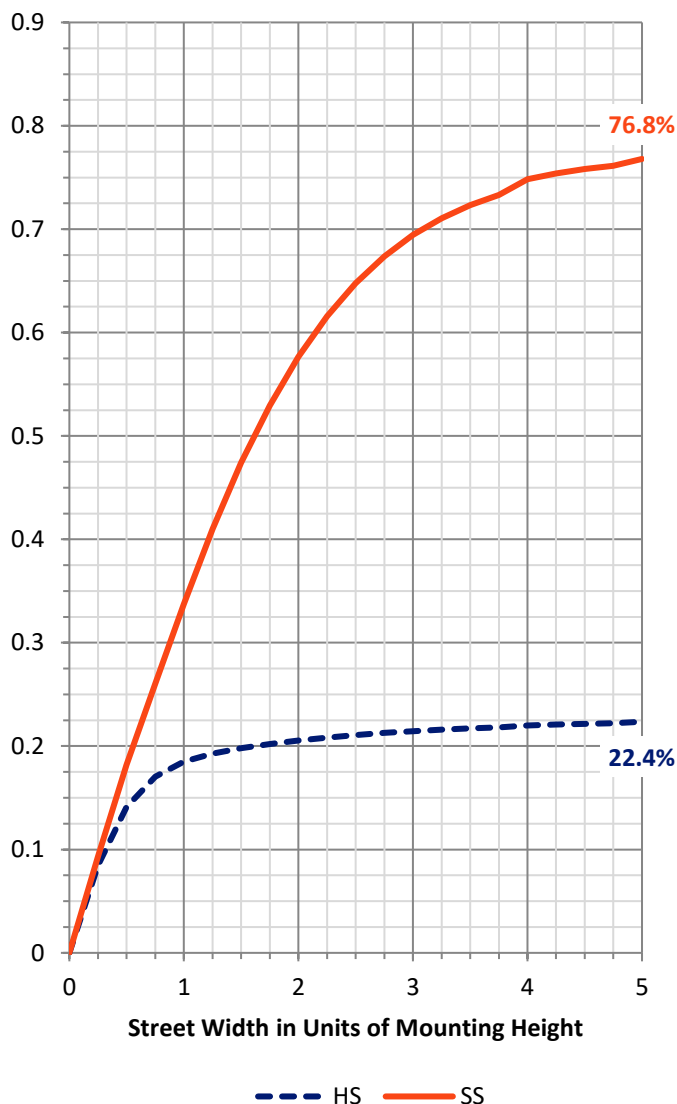
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2165.5	0.0	2165.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7300.6	0.0	7300.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9466.0	0.0	9466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.1
10°-20°	315.0	3.3
20°-30°	532.1	5.6
30°-40°	729.3	7.7
40°-50°	1074.2	11.3
50°-60°	1689.7	17.9
60°-70°	2432.2	25.7
70°-80°	2211.6	23.4
80°-90°	381.8	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°	9466.0	100.0
0°-180°	9466.0	100.0

**Coefficient of Utilization**



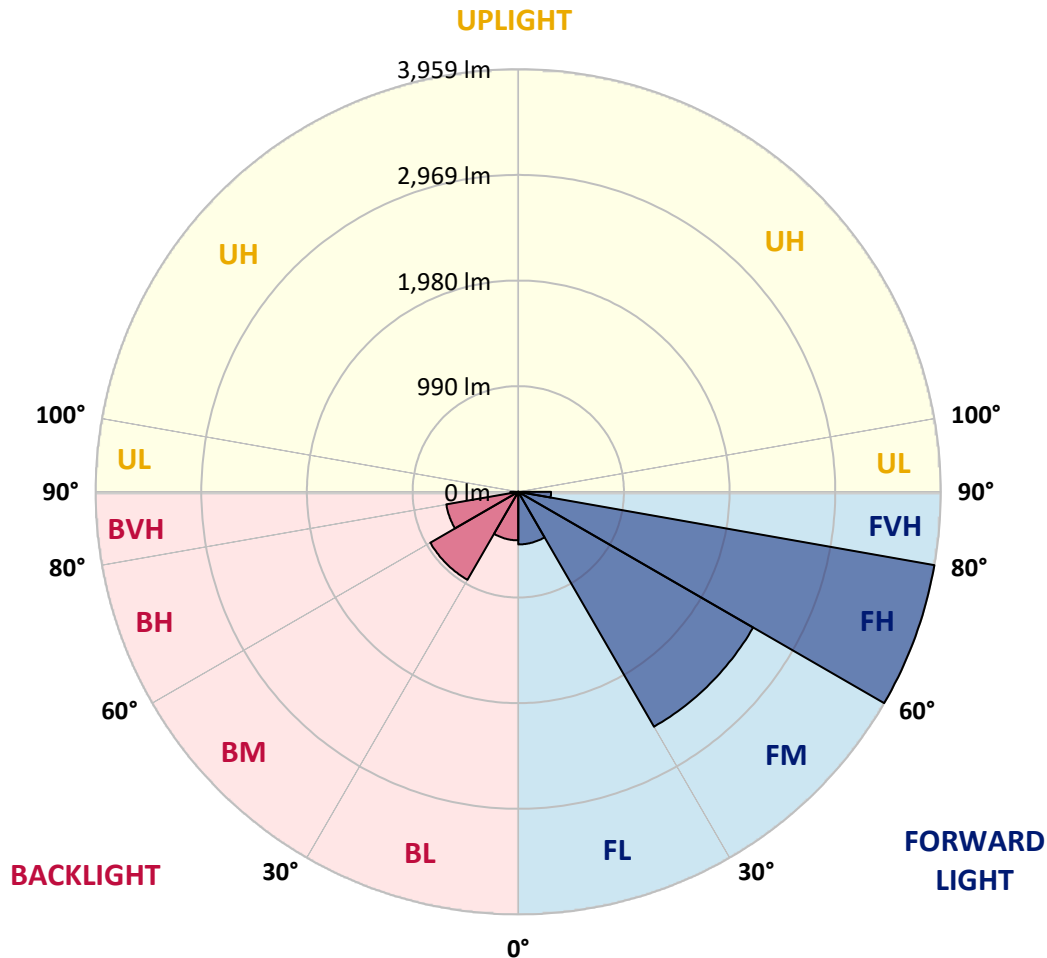
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.7	5.2			
FM (30°-60°)	2541.4	26.8			
FH (60°-80°)	3959.1	41.8			G2/5000
FVH (80°-90°)	307.3	3.2			G3/500
BL (0°-30°)	454.6	4.8	B1/500		
BM (30°-60°)	951.7	10.1	B1/1000		
BH (60°-80°)	684.6	7.2	B2/1000		G2/1000
BVH (80°-90°)	74.5	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°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1055.0	1055.0	1057.3	1052.6	1052.6	1041.0	1041.0	1038.7	1034.1	1031.8	1027.1
5°	1094.4	1094.4	1087.4	1075.8	1068.9	1055.0	1048.0	1043.4	1034.1	1022.5	1010.9
7.5°	1136.1	1131.5	1126.8	1108.3	1094.4	1068.9	1057.3	1050.3	1031.8	1015.5	1008.6
10°	1180.2	1173.2	1161.6	1138.4	1117.6	1087.4	1073.5	1064.2	1043.4	1029.5	1013.2
12.5°	1205.7	1205.7	1191.8	1163.9	1136.1	1099.0	1092.1	1080.5	1059.6	1041.0	1024.8
15°	1231.2	1233.5	1219.6	1187.1	1154.7	1126.8	1115.2	1108.3	1085.1	1057.3	1036.4
17.5°	1256.7	1254.4	1240.4	1203.3	1168.6	1143.1	1136.1	1126.8	1103.6	1078.1	1057.3
20°	1275.2	1270.6	1266.0	1219.6	1184.8	1168.6	1159.3	1152.3	1129.2	1101.3	1073.5
22.5°	1279.9	1284.5	1279.9	1224.2	1196.4	1177.8	1175.5	1168.6	1150.0	1124.5	1096.7
25°	1282.2	1284.5	1291.5	1238.1	1212.6	1198.7	1194.1	1189.4	1175.5	1154.7	1117.6
27.5°	1293.8	1296.1	1296.1	1247.4	1233.5	1224.2	1219.6	1219.6	1212.6	1187.1	1150.0
30°	1296.1	1298.4	1303.0	1270.6	1266.0	1259.0	1261.3	1259.0	1247.4	1219.6	1177.8
32.5°	1312.3	1314.6	1326.2	1284.5	1289.1	1296.1	1298.4	1296.1	1272.9	1249.7	1214.9
35°	1365.6	1363.3	1372.6	1319.3	1314.6	1317.0	1323.9	1321.6	1312.3	1291.5	1268.3
37.5°	1537.2	1537.2	1511.7	1400.4	1365.6	1361.0	1365.6	1377.2	1379.6	1361.0	1342.5
40°	1838.6	1822.4	1808.5	1567.4	1456.1	1428.3	1442.2	1449.1	1467.7	1467.7	1467.7
42.5°	2149.3	2151.7	2147.0	1827.0	1618.4	1548.8	1551.1	1567.4	1606.8	1613.7	1634.6
45°	2425.2	2441.5	2476.3	2128.5	1857.2	1701.8	1685.6	1701.8	1757.5	1803.9	1857.2
47.5°	2640.9	2622.3	2698.8	2443.8	2130.8	1910.5	1868.8	1873.4	1949.9	2024.1	2107.6
50°	2826.4	2831.0	2865.8	2766.1	2476.3	2147.0	2091.4	2082.1	2191.1	2269.9	2411.3
52.5°	3035.0	3021.1	3072.1	3048.9	2812.4	2436.8	2348.7	2320.9	2439.2	2550.4	2703.5
55°	3134.7	3148.6	3253.0	3310.9	3130.1	2696.5	2599.1	2608.4	2733.6	2851.9	3065.2
57.5°	3310.9	3324.9	3445.4	3566.0	3413.0	2972.4	2886.6	2886.6	3028.1	3160.2	3489.5
60°	3552.1	3554.4	3677.3	3886.0	3661.1	3239.1	3183.4	3181.1	3334.1	3487.2	3990.3
62.5°	3658.7	3686.6	3869.7	4141.0	3985.7	3566.0	3501.1	3519.6	3656.4	3834.9	4549.1
65°	3515.0	3575.3	3957.8	4312.6	4275.5	3906.8	3881.3	3906.8	3990.3	4182.7	5140.3
67.5°	3039.7	3120.8	3795.5	4428.5	4507.3	4301.0	4263.9	4259.2	4312.6	4528.2	5513.6
70°	2793.9	2842.6	3366.6	4472.6	4692.8	4699.8	4699.8	4669.6	4662.7	4820.3	5548.4
72.5°	2300.0	2351.1	2840.3	4226.8	4869.0	5233.1	5286.4	5175.1	5003.5	4971.1	4966.4
75°	1639.2	1676.3	2098.3	3324.9	4644.1	5745.5	5852.1	5636.5	5158.9	4641.8	3621.6
76°	1143.1	1196.4	1639.2	2840.3	4361.3	5754.7	5921.7	5671.3	5054.5	4358.9	2984.0
77.5°	579.6	598.2	948.3	1908.2	3649.5	5490.4	5652.7	5372.2	4600.1	3521.9	1894.3
80°	220.3	227.2	338.5	695.6	2003.3	4263.9	4326.5	3948.6	3044.3	1504.8	681.7
82.5°	115.9	120.6	190.1	343.2	823.1	2344.1	2645.5	2202.7	1194.1	452.1	199.4
85°	58.0	62.6	111.3	208.7	408.1	732.7	848.6	802.2	396.5	171.6	74.2
87.5°	23.2	27.8	55.6	92.7	164.6	143.8	160.0	206.4	127.5	81.2	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°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1027.1	1024.8	1027.1	1024.8	1027.1	1027.1	1029.5	1024.8	1024.8	1029.5	1022.5
5°	1010.9	1008.6	1010.9	1015.5	1017.9	1022.5	1031.8	1029.5	1034.1	1038.7	1041.0
7.5°	1003.9	1001.6	1008.6	1010.9	1017.9	1027.1	1041.0	1050.3	1055.0	1064.2	1059.6
10°	1010.9	1010.9	1020.2	1027.1	1038.7	1050.3	1061.9	1071.2	1082.8	1089.7	1087.4
12.5°	1022.5	1020.2	1036.4	1045.7	1061.9	1073.5	1082.8	1087.4	1096.7	1106.0	1103.6
15°	1034.1	1036.4	1059.6	1078.1	1096.7	1101.3	1103.6	1099.0	1103.6	1108.3	1108.3
17.5°	1057.3	1059.6	1085.1	1106.0	1122.2	1117.6	1106.0	1094.4	1094.4	1096.7	1099.0
20°	1075.8	1080.5	1110.6	1129.2	1138.4	1119.9	1101.3	1087.4	1080.5	1082.8	1080.5
22.5°	1096.7	1106.0	1136.1	1145.4	1131.5	1108.3	1085.1	1066.6	1066.6	1068.9	1068.9
25°	1122.2	1126.8	1147.7	1143.1	1117.6	1082.8	1064.2	1057.3	1055.0	1057.3	1059.6
27.5°	1145.4	1147.7	1159.3	1126.8	1078.1	1041.0	1034.1	1036.4	1038.7	1041.0	1043.4
30°	1175.5	1180.2	1168.6	1103.6	1029.5	987.7	987.7	1001.6	1006.3	1013.2	1010.9
32.5°	1212.6	1217.3	1182.5	1073.5	966.9	925.1	927.4	948.3	962.2	966.9	969.2
35°	1275.2	1266.0	1191.8	1031.8	899.6	848.6	850.9	876.4	895.0	901.9	897.3
37.5°	1351.7	1349.4	1205.7	978.4	816.1	769.8	772.1	783.7	802.2	804.6	806.9
40°	1479.3	1460.7	1228.9	908.9	732.7	688.6	684.0	690.9	688.6	693.3	695.6
42.5°	1662.4	1613.7	1259.0	830.1	658.5	612.1	607.5	595.9	582.0	568.1	561.1
45°	1878.1	1801.5	1296.1	748.9	582.0	540.2	528.6	514.7	486.9	456.8	447.5
47.5°	2156.3	2010.2	1337.8	667.8	510.1	477.6	468.4	447.5	415.0	380.2	373.3
50°	2441.5	2256.0	1379.6	600.5	452.1	433.6	424.3	403.4	361.7	329.2	322.3
52.5°	2773.0	2499.4	1423.6	540.2	401.1	401.1	394.2	361.7	322.3	292.1	287.5
55°	3155.6	2749.8	1493.2	482.3	364.0	373.3	364.0	331.6	294.5	273.6	271.3
57.5°	3612.4	3067.5	1581.3	419.7	331.6	338.5	338.5	315.3	289.8	275.9	273.6
60°	4071.4	3389.8	1636.9	373.3	306.1	313.0	326.9	315.3	299.1	292.1	289.8
62.5°	4512.0	3719.0	1541.9	333.9	280.5	301.4	336.2	338.5	322.3	324.6	324.6
65°	4841.2	3969.4	1247.4	299.1	264.3	308.4	364.0	366.3	338.5	331.6	329.2
67.5°	4954.8	4039.0	839.3	275.9	255.0	313.0	396.5	387.2	338.5	324.6	317.6
70°	4739.2	3783.9	544.9	255.0	241.1	308.4	422.0	398.8	336.2	315.3	306.1
72.5°	3974.1	3227.5	364.0	236.5	227.2	303.7	438.2	398.8	329.2	299.1	289.8
75°	2759.1	2205.0	271.3	213.3	206.4	296.8	442.9	391.8	313.0	280.5	273.6
76°	2214.3	1653.2	245.8	204.0	197.1	292.1	440.5	384.9	301.4	271.3	264.3
77.5°	1398.1	950.6	206.4	187.8	183.2	282.9	431.3	368.7	285.2	255.0	248.1
80°	489.2	347.8	157.7	153.0	155.3	262.0	405.8	336.2	252.7	224.9	215.6
82.5°	194.8	160.0	118.2	118.2	122.9	224.9	366.3	296.8	220.3	185.5	171.6
85°	76.5	69.6	83.5	83.5	88.1	183.2	306.1	231.9	150.7	115.9	111.3
87.5°	23.2	32.5	37.1	39.4	41.7	92.7	173.9	102.0	67.2	48.7	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)