

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: P450622

Luminaire Tested: **GALN-SA1B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4565 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

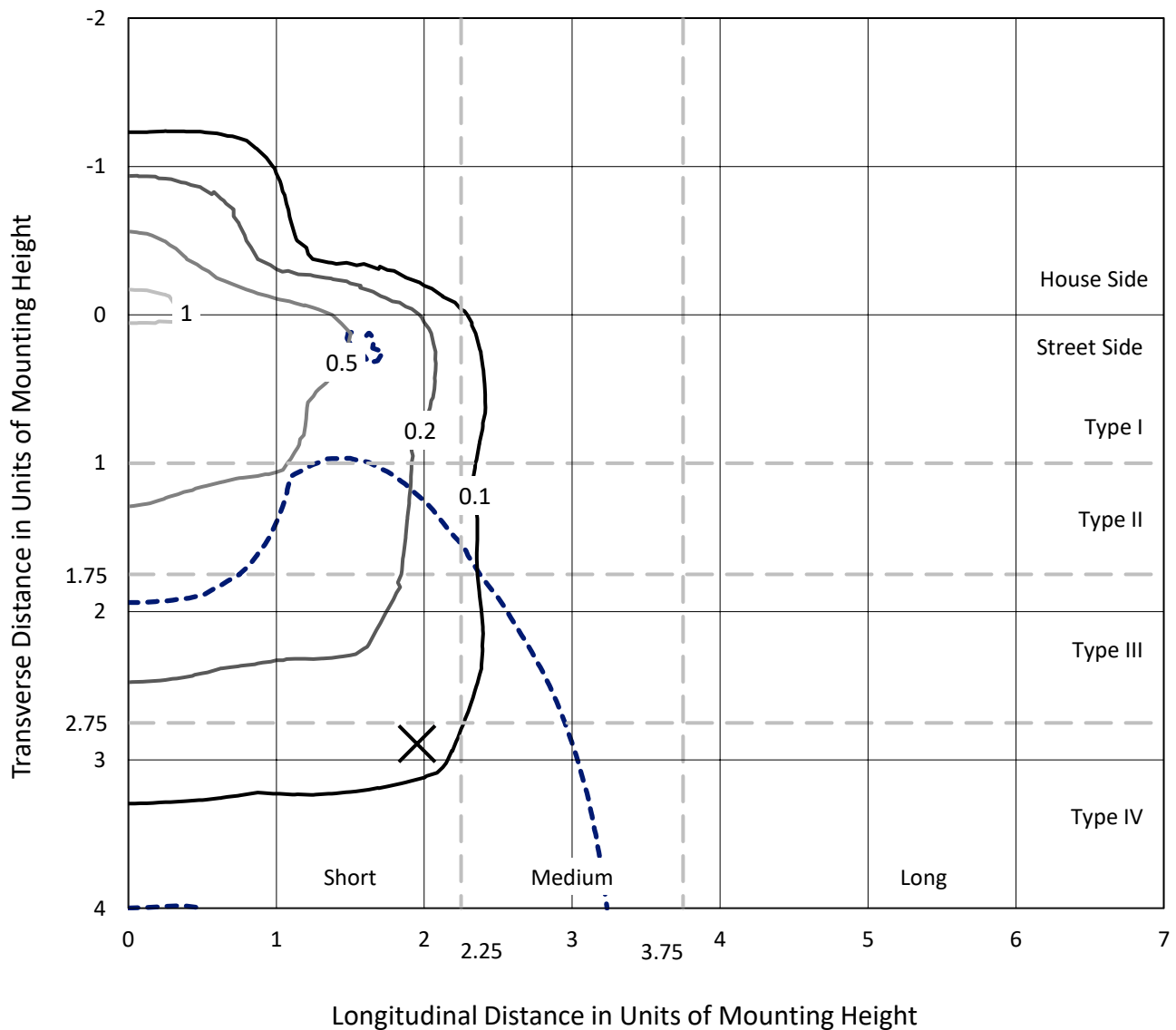


REPORT NUMBER: P450622

CATALOG NUMBER: GALN-SA1B-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

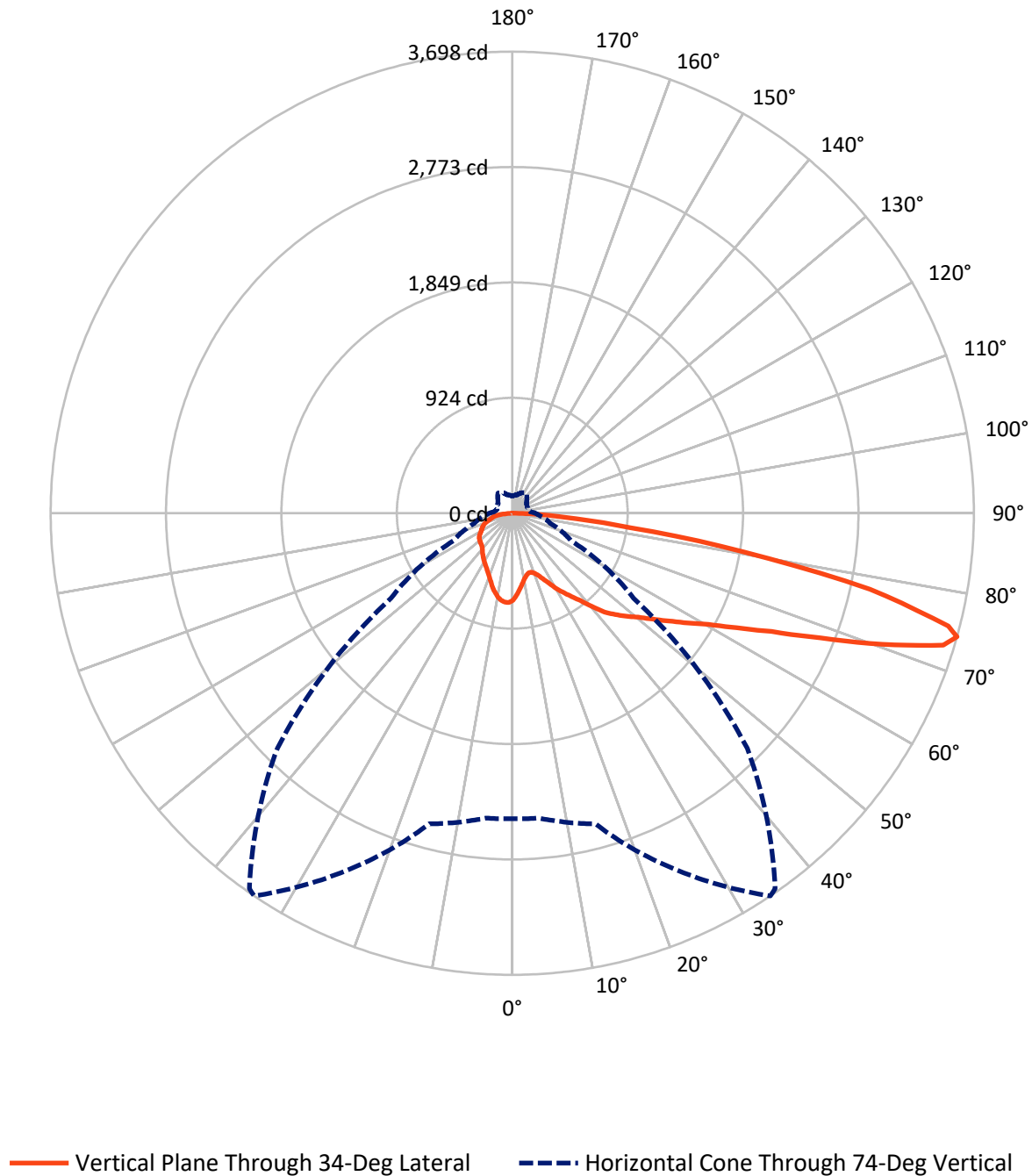


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P450622

CATALOG NUMBER: GALN-SA1B-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P450622

CATALOG NUMBER: GALN-SA1B-830-U-T4FT

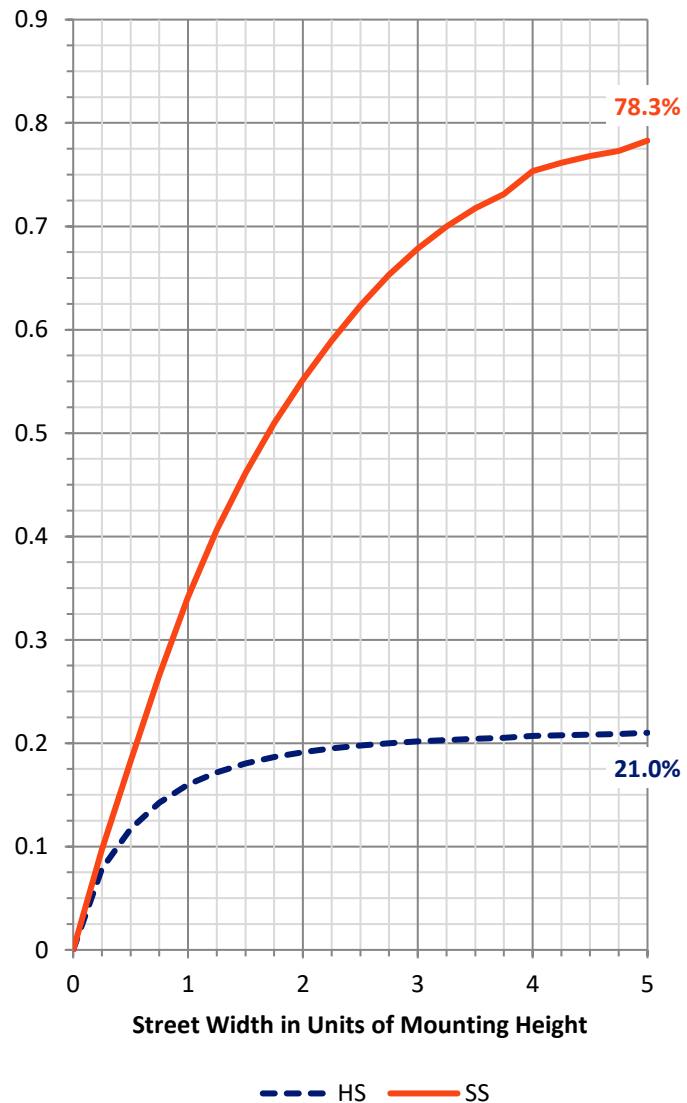
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.5	0.0	971.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3593.5	0.0	3593.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	4565.0	0.0	4565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.4
10°-20°	173.5	3.8
20°-30°	286.1	6.3
30°-40°	428.5	9.4
40°-50°	623.0	13.6
50°-60°	870.1	19.1
60°-70°	1089.4	23.9
70°-80°	900.8	19.7
80°-90°	130.2	2.9
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°	4565.0	100.0
0°-180°	4565.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450622

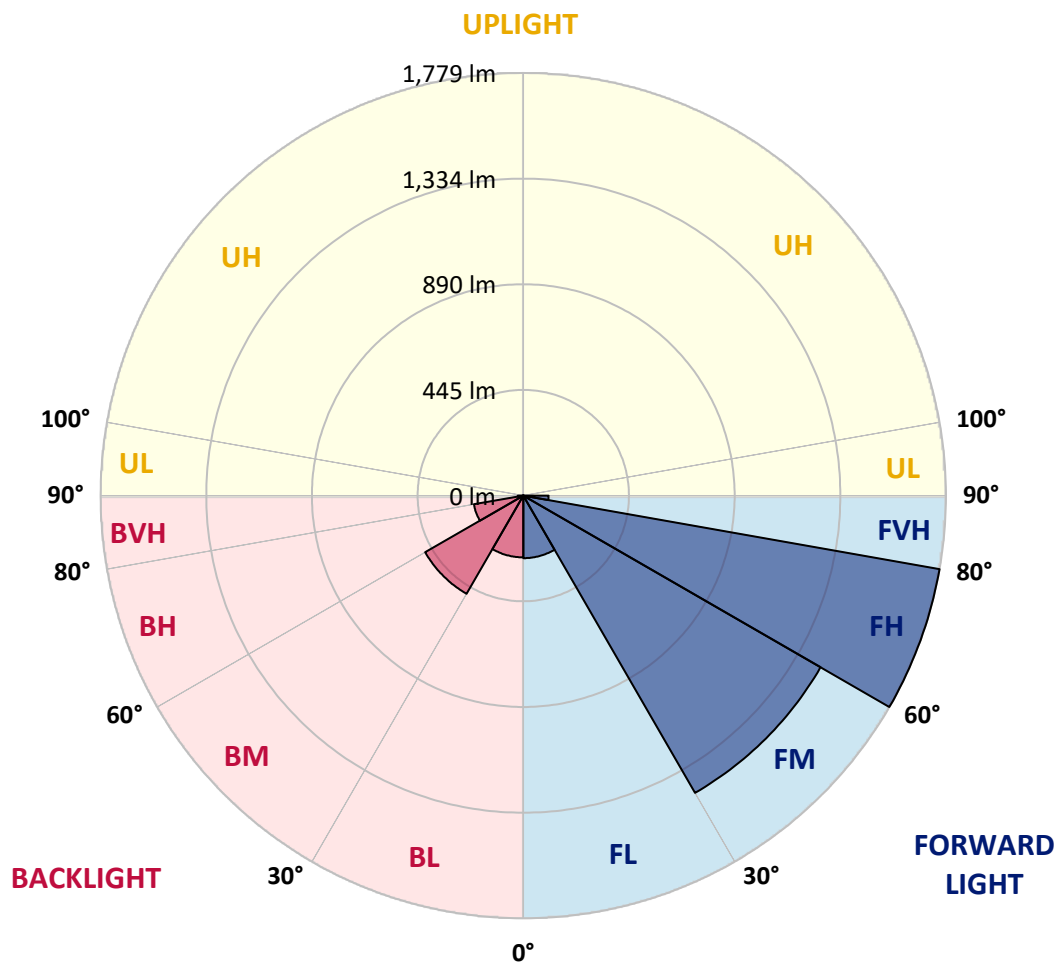
CATALOG NUMBER: GALN-SA1B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.1	5.8			
FM	(30°-60°)	1444.6	31.6			
FH	(60°-80°)	1779.2	39.0			G1/1800
FVH	(80°-90°)	106.6	2.3			G2/225
BL	(0°-30°)	259.9	5.7	B1/500		
BM	(30°-60°)	477.1	10.5	B1/1000		
BH	(60°-80°)	211.0	4.6	B1/500		G1/500
BVH	(80°-90°)	23.5	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 IV Short





REPORT NUMBER: P450622

CATALOG NUMBER: GALN-SA1B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	644.1	647.4	649.2	655.5	657.0	659.1	664.4	671.4	680.5	688.6	695.7
5°	590.5	595.6	598.6	604.2	615.0	616.1	630.2	646.4	664.9	682.1	696.2
7.5°	539.7	545.2	547.8	557.9	572.3	574.6	595.3	620.9	651.7	677.8	699.5
10°	501.5	504.3	509.8	517.4	534.6	536.1	563.2	597.3	637.3	675.7	705.1
12.5°	480.8	482.3	483.5	491.6	508.6	510.9	539.2	577.9	625.9	677.3	714.2
15°	483.8	484.3	478.7	480.3	493.9	497.2	525.3	565.0	618.8	681.1	727.8
17.5°	509.3	507.6	493.9	486.8	496.4	498.0	522.5	559.9	615.6	688.1	742.0
20°	549.5	547.0	523.5	507.8	513.4	514.6	531.6	563.7	618.8	699.8	764.0
22.5°	599.6	598.6	562.9	544.0	543.7	543.7	552.6	577.4	628.7	715.7	787.0
25°	669.7	664.4	617.8	593.3	586.5	586.0	585.0	599.9	641.3	732.6	814.3
27.5°	741.5	732.4	690.9	653.2	638.6	636.8	630.2	631.7	657.5	751.9	845.4
30°	806.0	800.2	761.2	719.5	702.0	698.0	679.8	671.4	684.6	786.5	895.0
32.5°	855.3	851.8	821.4	783.5	757.7	756.9	730.4	723.5	726.8	828.5	951.7
35°	895.3	896.5	881.1	848.2	818.6	814.3	796.6	788.0	778.4	889.2	1023.0
37.5°	949.9	952.7	951.7	923.3	887.2	888.2	884.1	870.0	844.4	957.0	1102.1
40°	1010.1	1012.1	1011.8	1001.0	982.0	983.0	981.5	965.3	927.1	1043.2	1190.1
42.5°	1093.3	1083.7	1058.6	1069.5	1080.6	1085.4	1095.8	1080.4	1028.0	1135.3	1272.8
45°	1186.3	1168.1	1111.5	1116.5	1157.8	1166.9	1224.0	1202.8	1137.5	1241.0	1370.2
47.5°	1245.0	1227.1	1179.3	1178.2	1232.9	1241.7	1342.9	1335.0	1237.2	1355.0	1489.1
50°	1297.4	1294.8	1241.0	1253.9	1307.2	1320.4	1472.4	1465.0	1336.6	1489.6	1618.5
52.5°	1375.0	1354.5	1311.5	1338.1	1408.6	1425.8	1600.8	1579.3	1427.9	1608.4	1744.2
55°	1409.9	1405.1	1402.6	1425.6	1522.4	1534.8	1725.8	1676.5	1505.8	1709.1	1839.8
57.5°	1503.2	1494.4	1519.4	1535.1	1656.5	1675.4	1856.3	1777.9	1574.0	1789.0	1886.4
60°	1624.1	1619.3	1642.3	1670.6	1806.2	1835.0	2005.0	1864.4	1628.9	1829.2	1860.8
62.5°	1804.7	1804.2	1799.9	1860.6	2018.4	2044.9	2175.7	1948.6	1637.5	1799.1	1728.8
65°	2063.6	2054.5	2017.1	2083.4	2282.4	2313.5	2353.5	1995.6	1585.7	1644.6	1455.7
67.5°	2334.5	2334.0	2303.6	2389.6	2661.5	2693.6	2575.8	1985.2	1441.8	1332.3	1033.8
70°	2559.1	2548.2	2586.9	2816.0	3145.8	3183.0	2770.2	1863.1	1148.4	879.8	614.3
72.5°	2612.9	2613.4	2693.9	3144.8	3610.9	3616.7	2840.3	1510.1	768.6	485.3	307.3
74°	2447.0	2451.3	2576.0	3161.2	3697.6	3671.3	2661.2	1186.8	519.7	316.9	221.5
75°	2233.6	2206.5	2386.8	3051.7	3607.6	3579.3	2451.6	952.4	396.5	253.2	194.0
77.5°	1194.2	1221.7	1499.9	2277.3	2930.8	2898.2	1662.3	456.7	214.2	176.3	139.6
80°	425.1	468.9	659.1	1191.7	1879.0	1889.1	793.3	209.4	150.7	130.0	98.6
82.5°	173.5	178.3	283.0	528.8	954.2	963.3	324.0	124.4	107.7	89.5	58.9
85°	67.8	69.8	125.2	237.7	407.2	433.7	112.0	65.8	66.3	51.3	30.1
87.5°	22.8	25.8	51.3	79.2	138.3	135.6	32.6	19.5	23.8	22.3	9.4
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: P450622

CATALOG NUMBER: GALN-SA1B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	699.3	704.1	707.4	710.9	714.2	715.2	714.4	716.7	717.0	717.2	717.5
5°	703.3	709.9	716.2	719.7	721.3	720.0	715.7	713.4	711.4	709.9	710.4
7.5°	708.9	718.2	724.0	725.6	721.5	715.7	705.1	696.7	691.4	687.9	687.6
10°	717.5	726.6	731.4	727.1	716.0	701.8	685.1	669.4	657.5	654.0	653.7
12.5°	728.3	738.7	738.5	725.8	706.3	681.1	654.0	635.8	619.6	611.5	614.8
15°	742.5	750.3	743.0	720.3	689.4	654.8	621.4	596.6	578.4	569.8	570.3
17.5°	758.9	765.8	746.3	710.4	665.6	621.1	582.4	558.9	544.5	538.2	537.7
20°	779.4	781.5	746.3	693.2	635.0	581.9	545.0	528.6	520.5	517.2	518.2
22.5°	801.4	797.4	742.3	668.9	594.8	540.9	516.2	508.8	504.8	504.3	504.8
25°	826.2	814.8	733.9	636.0	552.8	505.5	491.1	492.4	493.1	493.1	494.9
27.5°	856.6	833.8	720.0	594.6	503.8	472.7	468.6	477.5	481.5	482.3	483.5
30°	896.5	854.5	697.0	542.7	462.0	443.1	450.2	462.0	466.6	469.4	468.9
32.5°	944.1	877.3	665.9	490.9	428.4	422.3	430.9	443.1	448.1	449.7	447.6
35°	1000.0	903.1	624.9	442.3	399.1	402.6	412.7	416.5	421.1	421.1	422.1
37.5°	1060.1	923.8	574.8	397.8	376.3	389.2	396.5	393.0	391.0	388.5	389.7
40°	1121.3	939.3	509.8	353.8	353.6	375.3	377.3	367.2	359.1	356.6	355.3
42.5°	1174.7	948.9	451.2	319.7	332.1	361.6	363.2	347.0	334.1	326.5	324.0
45°	1237.7	960.0	393.8	291.3	312.1	350.8	354.6	332.8	313.8	297.9	293.9
47.5°	1323.9	985.3	348.5	269.3	297.7	343.9	349.3	321.2	296.1	275.4	272.1
50°	1421.3	1019.9	313.3	254.4	286.5	337.9	344.4	309.3	279.7	256.7	254.2
52.5°	1510.6	1038.6	283.0	241.0	275.7	326.7	338.1	300.7	263.5	238.0	235.7
55°	1559.4	1008.3	253.2	227.9	260.7	312.3	329.3	288.8	247.8	228.1	224.8
57.5°	1565.9	945.6	226.1	213.7	245.1	294.6	312.8	274.4	237.7	221.3	218.5
60°	1515.1	852.0	205.1	202.1	229.1	274.6	294.4	261.7	227.4	213.7	210.9
62.5°	1388.7	750.3	190.4	191.4	212.9	253.7	280.7	249.6	217.5	205.4	202.8
65°	1171.2	619.3	176.3	180.6	198.5	237.2	268.3	239.5	207.6	199.0	196.8
67.5°	813.6	447.1	164.6	169.2	184.9	220.5	253.9	228.6	196.5	191.9	188.4
70°	450.4	275.2	151.0	156.3	170.7	201.8	237.7	212.2	180.3	178.3	173.2
72.5°	236.7	175.3	135.6	141.4	151.5	177.8	212.9	194.2	164.4	155.8	149.2
74°	184.9	143.6	125.2	131.3	138.1	163.6	198.3	181.3	153.0	142.9	137.8
75°	161.1	128.0	116.3	124.2	130.2	154.0	186.9	172.2	146.7	137.1	132.5
77.5°	113.8	95.8	95.1	104.4	107.7	135.0	168.4	156.8	130.7	120.6	116.3
80°	79.9	71.8	75.4	81.2	85.7	119.4	156.3	135.6	107.2	95.3	93.8
82.5°	52.1	47.0	53.9	59.2	60.7	88.0	126.2	102.9	78.1	63.5	58.9
85°	24.0	23.5	30.9	30.1	29.8	43.0	74.9	60.2	45.0	33.6	31.6
87.5°	6.1	5.8	7.6	6.3	7.6	6.6	6.8	1.8	0.3	0.0	0.0
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)