

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: P528577

Luminaire Tested: **GALN-SA3C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9838 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

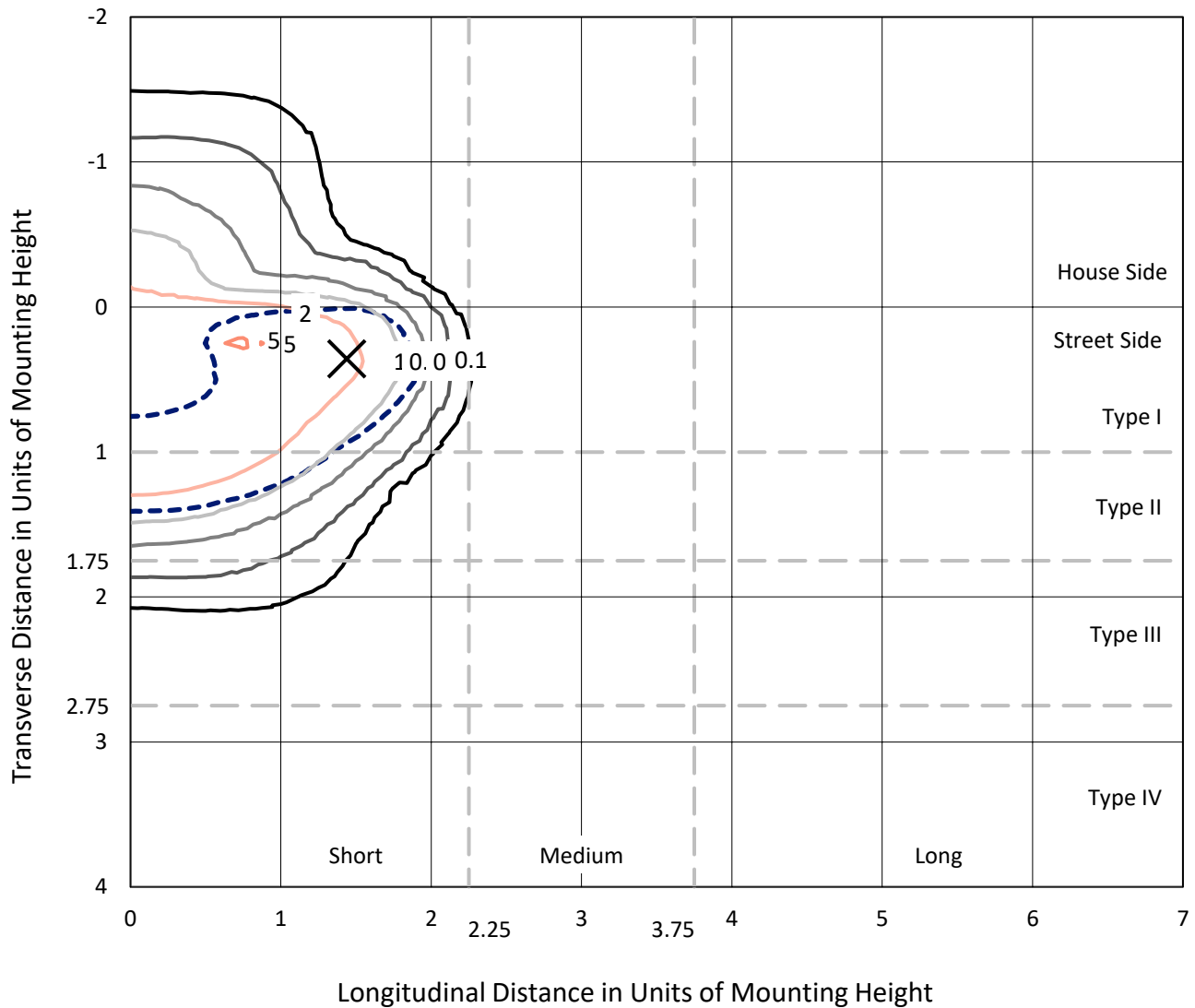
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528577
 CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

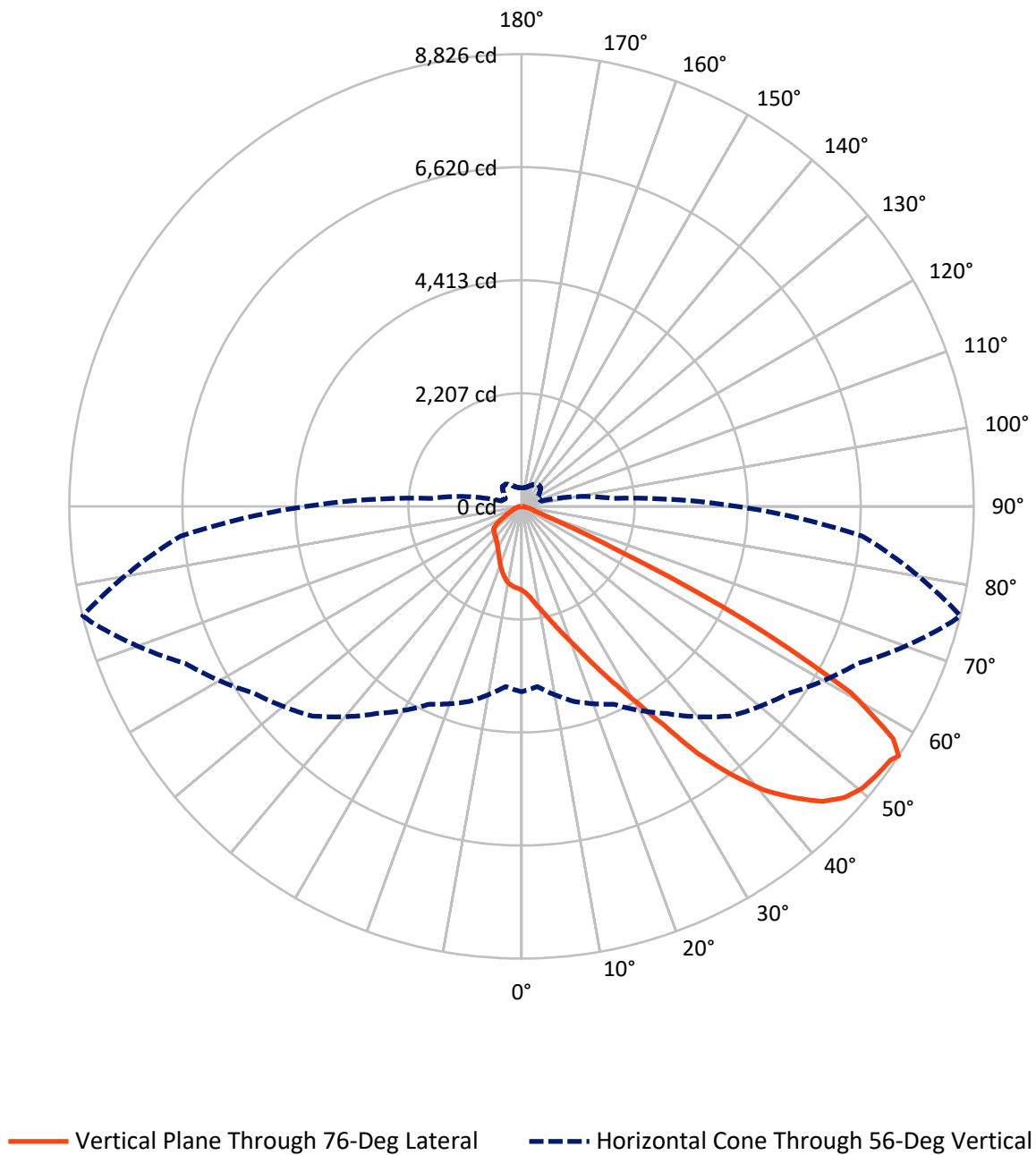
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

REPORT NUMBER: P528577
CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P528577

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

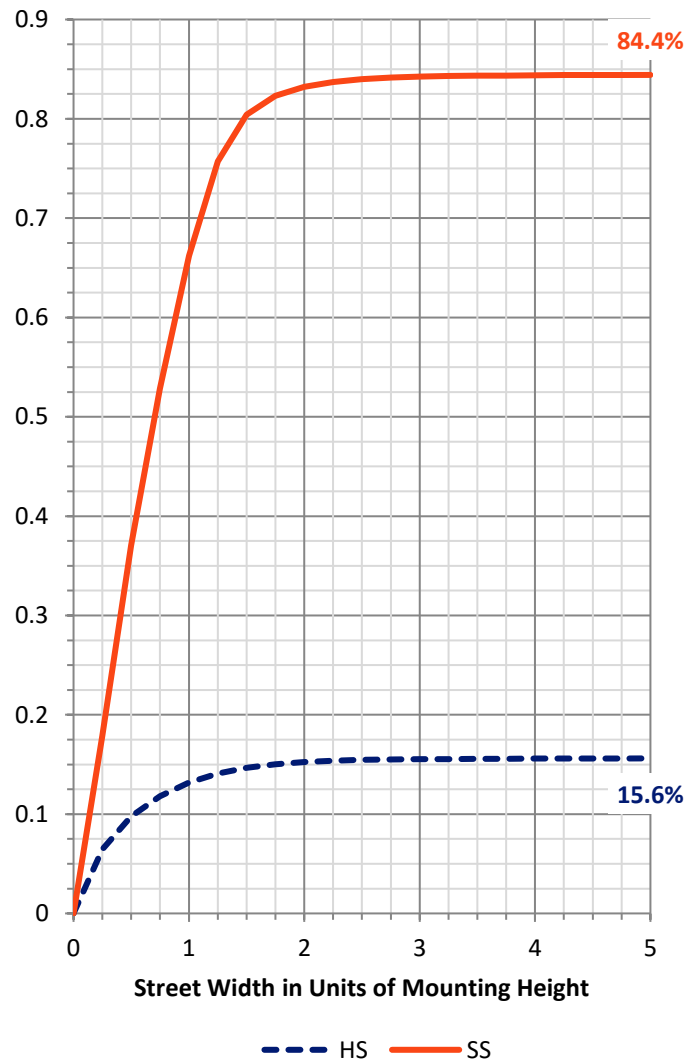
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1545.5	0.0	1545.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8292.5	0.0	8292.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	9838.0	0.0	9838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	1.7
10°-20°	530.0	5.4
20°-30°	961.0	9.8
30°-40°	1657.2	16.8
40°-50°	2692.2	27.4
50°-60°	2837.7	28.8
60°-70°	867.0	8.8
70°-80°	111.1	1.1
80°-90°	16.9	0.2
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°	9838.0	100.0
0°-180°	9838.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528577

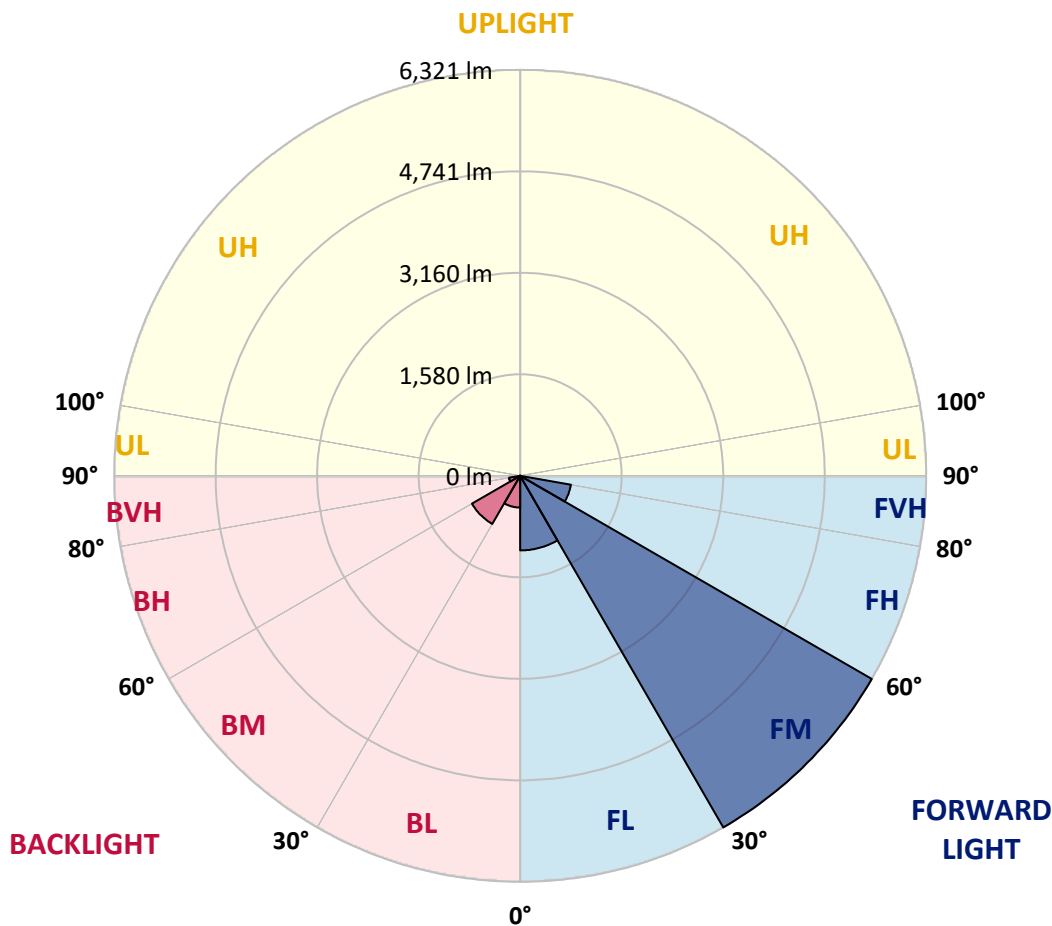
CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.5	11.8			
FM	(30°-60°)	6320.9	64.2			
FH	(60°-80°)	801.9	8.2			G1/1800
FVH	(80°-90°)	8.3	0.1			G0/10
BL	(0°-30°)	494.4	5.0	B1/500		
BM	(30°-60°)	866.2	8.8	B1/1000		
BH	(60°-80°)	176.3	1.8	B1/500		G1/500
BVH	(80°-90°)	8.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P528577

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1886.0	1842.5	1844.3	1840.7	1835.2	1815.3	1755.4	1746.4	1706.5	1695.6	1659.3
5°	2112.7	2074.6	2096.4	2063.7	2032.9	2014.7	1916.8	1871.5	1808.0	1784.4	1733.7
7.5°	2254.1	2236.0	2228.7	2230.5	2201.5	2156.2	2112.7	2012.9	1927.7	1909.6	1802.6
10°	2323.0	2312.2	2323.0	2317.6	2330.3	2335.7	2259.6	2199.7	2074.6	2043.8	1876.9
12.5°	2339.4	2361.1	2370.2	2393.8	2424.6	2477.2	2471.7	2390.1	2223.3	2203.3	1991.2
15°	2379.3	2397.4	2388.3	2426.4	2484.4	2573.3	2620.4	2607.7	2428.2	2391.9	2123.6
17.5°	2415.5	2382.9	2413.7	2489.9	2547.9	2683.9	2798.2	2850.8	2651.3	2609.6	2245.1
20°	2464.5	2455.4	2450.0	2488.1	2591.4	2772.8	2999.5	3095.6	2901.5	2858.0	2419.1
22.5°	2613.2	2615.0	2611.4	2555.2	2629.5	2834.4	3175.4	3412.9	3200.7	3164.5	2616.8
25°	2809.0	2785.5	2767.3	2722.0	2712.9	2890.6	3353.1	3801.0	3559.8	3534.4	2830.8
27.5°	3015.8	3015.8	2961.4	2919.7	2861.6	3030.3	3516.3	4178.2	3993.2	3958.8	3017.6
30°	3240.6	3253.3	3246.1	3157.2	3121.0	3182.6	3683.1	4660.6	4490.1	4446.6	3325.9
32.5°	3572.5	3545.3	3576.1	3501.8	3394.8	3449.2	3946.1	5092.2	5135.7	5074.0	3730.3
35°	4011.4	3995.0	3975.1	3853.6	3726.7	3770.2	4317.8	5623.5	5946.3	5915.5	4138.3
37.5°	4404.9	4395.8	4379.5	4296.1	4149.2	4201.8	4740.4	6176.6	6737.0	6635.4	4715.0
40°	4818.4	4867.3	4814.7	4740.4	4606.2	4722.2	5237.3	6504.9	7402.5	7279.2	5155.7
42.5°	5378.7	5340.6	5364.2	5228.2	5155.7	5282.6	5736.0	6833.1	7919.4	7772.5	5623.5
45°	5975.3	5977.1	5913.7	5870.2	5681.6	5819.4	6042.4	7014.4	8331.0	8216.8	5977.1
47.5°	6358.0	6356.2	6425.1	6494.0	6299.9	6163.9	6251.0	7186.7	8543.2	8490.6	6105.9
50°	6298.1	6316.3	6405.1	6662.6	6764.2	6581.0	6446.8	7135.9	8639.3	8633.9	6216.5
52.5°	5478.4	5538.3	5687.0	6058.8	6570.1	6796.8	6651.8	7230.2	8686.4	8695.5	6381.5
55°	4170.9	4203.6	4486.5	4938.0	5503.8	6280.0	6570.1	7304.6	8722.7	8739.0	6581.0
56°	3617.8	3530.8	3938.8	4259.8	4936.2	5784.9	6363.4	7246.6	8701.0	8826.1	6680.8
57.5°	2731.1	2673.0	3003.1	3403.9	4054.9	4950.7	5721.5	6972.7	8554.1	8552.3	6537.5
60°	1661.1	1603.1	1857.0	2092.7	2457.2	3048.4	3866.3	5552.8	7232.1	7384.4	5293.5
62.5°	988.3	1024.6	1274.9	1418.1	1536.0	1597.7	2000.2	3300.5	4825.6	4934.4	3284.2
65°	658.3	671.0	859.6	1095.3	1147.9	914.0	814.2	1336.5	2092.7	2025.6	1354.7
67.5°	406.2	435.2	576.7	823.3	912.2	667.4	386.3	498.7	576.7	576.7	391.7
70°	246.6	261.1	384.5	560.4	625.6	429.8	281.1	281.1	277.5	272.0	233.9
72.5°	117.9	126.9	195.9	288.3	293.8	226.7	217.6	237.6	232.1	230.3	194.0
75°	50.8	54.4	68.9	90.7	103.4	96.1	132.4	170.5	175.9	170.5	139.6
77.5°	16.3	18.1	25.4	32.6	34.5	41.7	56.2	70.7	81.6	76.2	68.9
80°	1.8	3.6	7.3	16.3	25.4	32.6	41.7	47.1	52.6	52.6	49.0
82.5°	1.8	1.8	7.3	14.5	23.6	30.8	39.9	45.3	52.6	54.4	50.8
85°	0.0	1.8	5.4	12.7	19.9	19.9	18.1	18.1	12.7	12.7	12.7
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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: P528577

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1652.1	1648.4	1599.5	1568.6	1552.3	1519.7	1499.7	1485.2	1474.3	1461.6	1463.5
5°	1673.8	1661.1	1579.5	1523.3	1456.2	1419.9	1389.1	1363.7	1347.4	1343.8	1336.5
7.5°	1735.5	1668.4	1545.1	1443.5	1358.3	1322.0	1294.8	1278.5	1285.7	1269.4	1282.1
10°	1782.6	1682.9	1503.4	1356.5	1271.2	1244.0	1229.5	1242.2	1260.4	1253.1	1244.0
12.5°	1840.7	1697.4	1436.3	1273.0	1193.3	1173.3	1198.7	1222.3	1258.5	1273.0	1254.9
15°	1905.9	1713.7	1351.0	1176.9	1126.2	1142.5	1186.0	1227.7	1264.0	1282.1	1293.0
17.5°	1985.7	1708.3	1267.6	1100.8	1062.7	1109.8	1162.4	1200.5	1254.9	1282.1	1274.9
20°	2060.1	1690.1	1175.1	1024.6	1026.4	1069.9	1113.5	1175.1	1204.1	1240.4	1227.7
22.5°	2130.8	1657.5	1079.0	972.0	972.0	1039.1	1060.9	1100.8	1126.2	1144.3	1142.5
25°	2230.5	1595.8	999.2	921.2	943.0	986.5	1004.7	1017.3	1006.5	1021.0	1022.8
27.5°	2301.3	1532.4	933.9	875.9	915.8	948.4	943.0	935.7	910.4	890.4	903.1
30°	2377.4	1458.0	877.7	845.1	866.8	895.8	874.1	852.3	812.4	779.8	781.6
32.5°	2486.2	1423.6	828.7	808.8	837.8	841.4	817.9	785.2	745.3	714.5	712.7
35°	2689.4	1401.8	787.0	785.2	790.7	792.5	768.9	729.0	712.7	687.3	696.4
37.5°	2892.5	1390.9	758.0	750.8	749.0	750.8	723.6	685.5	716.3	714.5	718.1
40°	3151.8	1439.9	716.3	707.2	709.1	709.1	674.6	663.7	718.1	723.6	725.4
42.5°	3414.7	1501.5	689.1	660.1	667.4	667.4	649.2	636.5	674.6	638.3	632.9
45°	3643.2	1592.2	660.1	612.9	631.1	640.1	634.7	612.9	589.4	527.7	527.7
47.5°	3717.6	1672.0	625.6	567.6	582.1	622.0	605.7	560.4	518.6	467.9	464.2
50°	3848.2	1759.1	598.4	515.0	545.8	594.8	578.5	533.2	486.0	449.7	451.6
52.5°	3982.3	1858.8	547.7	453.4	491.4	573.1	573.1	522.3	449.7	424.3	420.7
55°	4183.6	1855.2	457.0	371.8	438.9	540.4	549.5	467.9	402.6	382.6	382.6
56°	4212.7	1771.7	411.7	348.2	415.3	531.3	533.2	453.4	384.5	362.7	362.7
57.5°	3995.0	1599.5	360.9	319.2	386.3	515.0	516.8	440.7	369.9	339.1	335.5
60°	3073.8	1082.6	301.0	284.7	350.0	464.2	473.3	400.8	324.6	301.0	299.2
62.5°	1735.5	600.3	264.8	257.5	301.0	395.3	422.5	350.0	275.6	263.0	266.6
65°	792.5	330.0	223.1	208.5	243.0	304.7	340.9	288.3	226.7	212.2	212.2
67.5°	290.2	224.9	190.4	165.0	170.5	197.7	221.2	186.8	150.5	128.8	134.2
70°	206.7	188.6	166.8	143.3	132.4	128.8	126.9	105.2	74.4	58.0	61.7
72.5°	166.8	156.0	139.6	121.5	103.4	87.0	74.4	54.4	34.5	23.6	21.8
75°	119.7	114.2	101.6	87.0	72.5	61.7	50.8	34.5	18.1	9.1	9.1
77.5°	61.7	61.7	59.8	54.4	45.3	36.3	29.0	19.9	10.9	3.6	3.6
80°	47.1	50.8	52.6	47.1	41.7	32.6	23.6	14.5	7.3	1.8	1.8
82.5°	45.3	52.6	56.2	49.0	41.7	30.8	23.6	14.5	7.3	1.8	1.8
85°	10.9	10.9	16.3	18.1	23.6	25.4	19.9	12.7	5.4	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)