

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: P531373

Luminaire Tested: **GALN-SA6C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24713 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 321
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

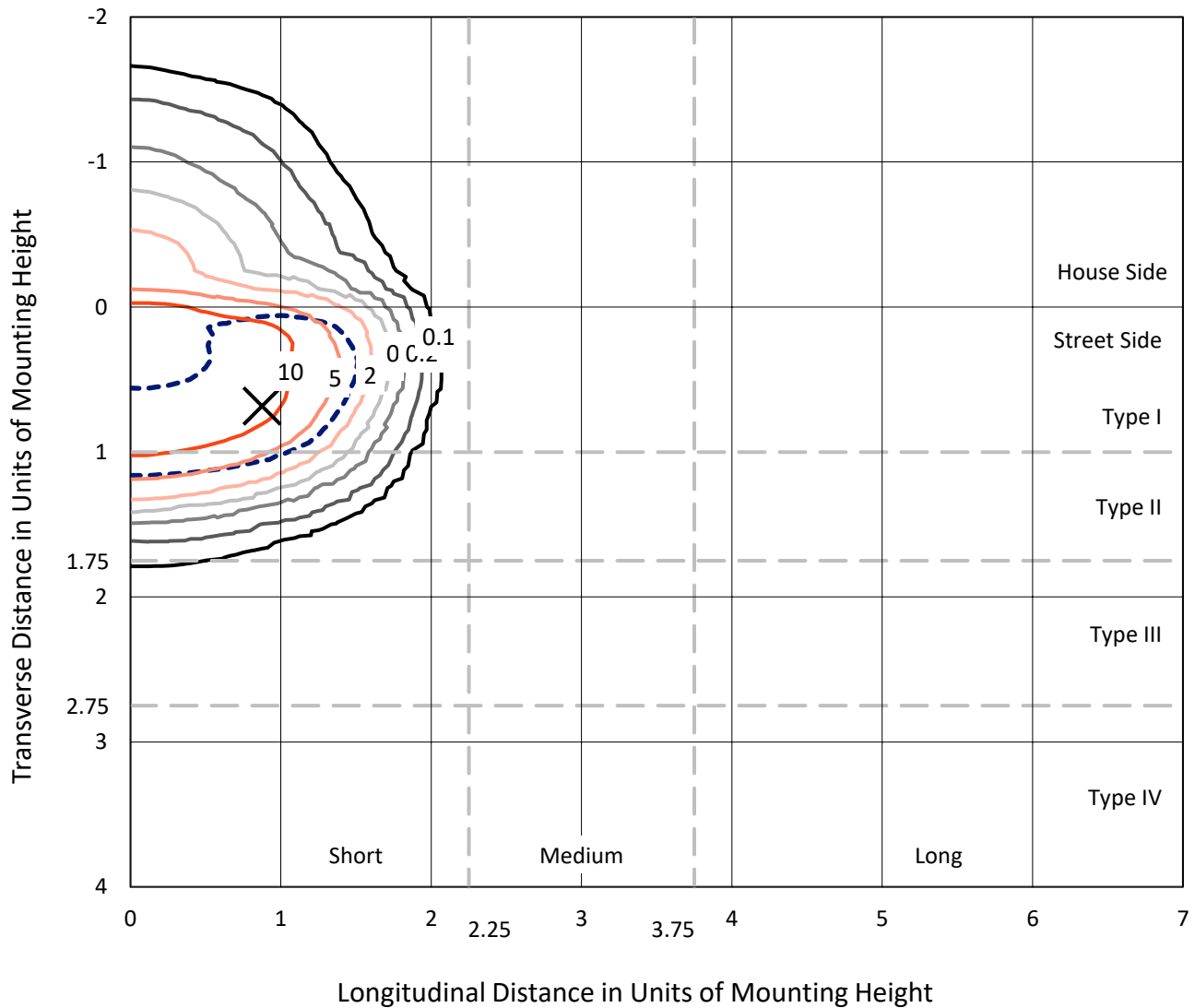


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

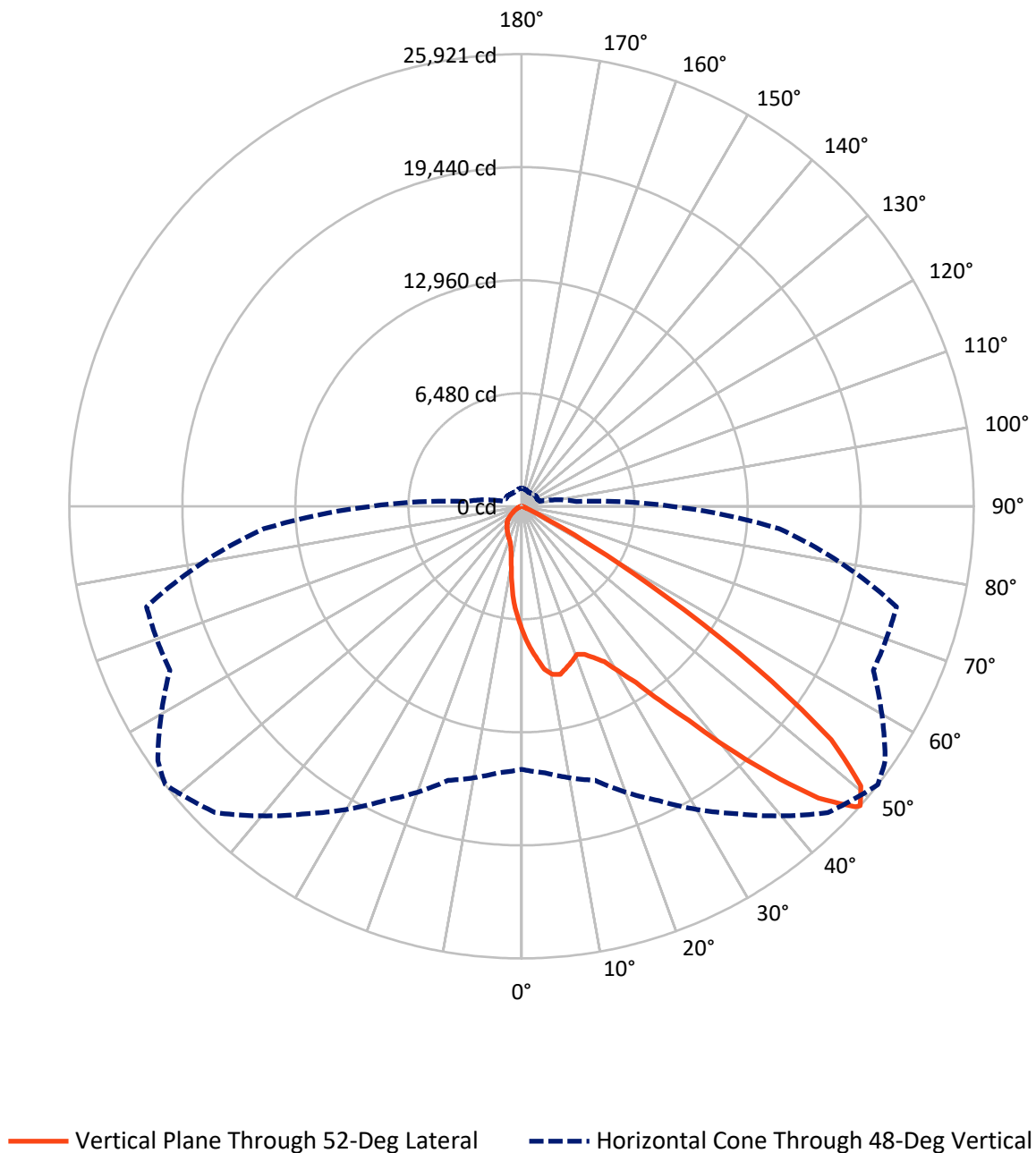


Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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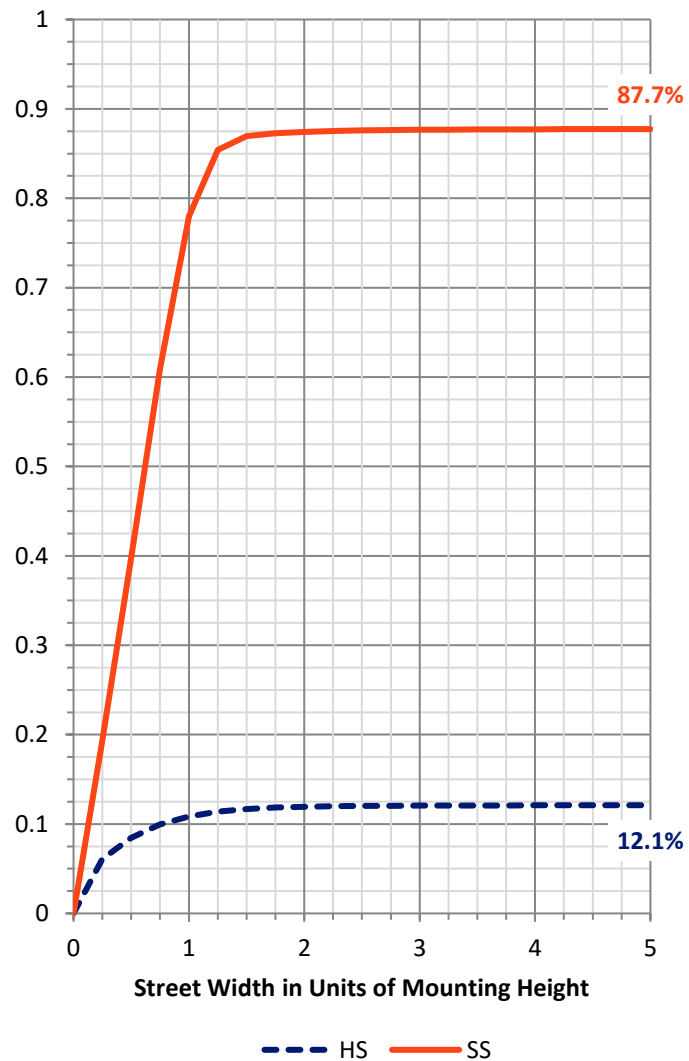
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3009.0	0.0	3009.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21704.0	0.0	21704.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	24713.0	0.0	24713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.2	2.6
10°-20°	1707.1	6.9
20°-30°	2914.7	11.8
30°-40°	5367.4	21.7
40°-50°	8335.5	33.7
50°-60°	5016.6	20.3
60°-70°	580.2	2.3
70°-80°	112.3	0.5
80°-90°	26.0	0.1
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°	24713.0	100.0
0°-180°	24713.0	100.0

Coefficient of Utilization



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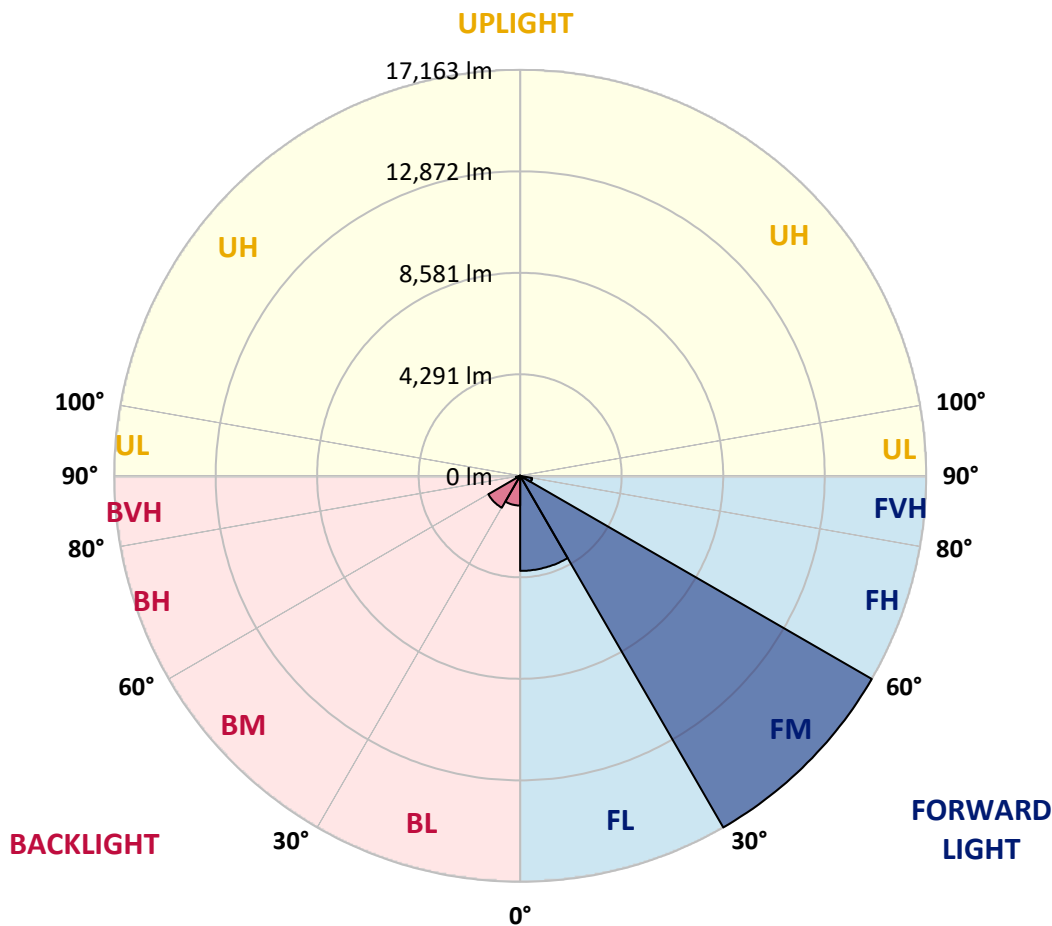
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4018.0	16.3			
FM	(30°-60°)	17162.7	69.4			
FH	(60°-80°)	510.9	2.1			G0/660
FVH	(80°-90°)	12.4	0.0			G1/100
BL	(0°-30°)	1257.0	5.1	B3/2500		
BM	(30°-60°)	1556.8	6.3	B2/2500		
BH	(60°-80°)	181.6	0.7	B1/500		G1/500
BVH	(80°-90°)	13.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7
2.5°	8649.8	8451.6	8469.7	8340.0	8264.3	8141.8	7976.1	7943.7	7763.6	7518.6	7270.0
5°	9427.9	9381.1	9442.4	9255.0	9262.2	9060.5	8671.4	8678.6	8264.3	7864.4	7478.9
7.5°	9478.4	9370.3	9431.5	9597.3	9694.5	9658.5	9438.8	9247.8	8855.1	8267.9	7705.9
10°	8487.7	8693.0	8757.9	9031.7	9420.7	9831.4	9806.2	9817.0	9489.2	8721.8	7900.5
12.5°	7893.2	7756.3	7976.1	8141.8	8729.0	9525.2	9889.1	9968.3	9993.5	9161.4	8095.0
15°	7623.1	7623.1	7659.1	7705.9	8131.0	8865.9	9608.1	9838.6	10382.6	9737.8	8401.2
17.5°	7792.4	7785.2	7835.6	7738.3	7896.8	8462.5	9348.7	9611.7	10818.5	10303.4	8642.6
20°	8307.5	8332.8	8300.3	8019.3	8030.1	8455.2	9060.5	9474.8	11113.9	10793.3	8963.2
22.5°	9024.5	9038.9	8855.1	8548.9	8458.8	8667.8	9226.2	9543.2	11351.7	11380.5	9060.5
25°	9853.0	9795.4	9759.4	9327.1	9053.3	9233.4	9600.9	9784.6	11499.4	11884.9	9337.9
27.5°	11002.3	10887.0	10667.2	10281.8	10080.0	9824.2	10087.2	10389.8	11920.9	12591.0	9640.5
30°	12699.1	12598.2	12169.5	11672.3	11142.8	10890.6	10973.4	11139.2	12681.1	13408.8	10040.4
32.5°	15253.3	15040.8	14421.1	13473.6	12753.1	12057.8	12036.2	12212.7	13362.0	14540.0	10515.9
35°	18066.9	18002.1	17090.6	16114.3	14720.1	13646.6	13664.6	13758.2	14666.1	16024.3	11139.2
37.5°	19936.7	20293.3	19713.3	18664.9	17494.1	15959.4	15570.3	15602.8	16456.6	17782.3	12263.2
40°	21381.3	21078.7	21147.1	20902.1	20102.4	19057.6	18196.6	18027.3	18528.1	19727.7	13380.0
42.5°	20750.8	20765.3	21186.8	21766.8	21964.9	21889.3	21010.2	20689.6	20300.5	21320.0	14442.7
45°	18971.2	19342.2	19889.8	21424.5	22771.9	24036.4	23863.5	23330.3	21525.4	22580.9	15055.2
47.5°	16132.3	16117.9	17015.0	19010.8	22004.5	24965.9	25751.2	25376.5	22393.6	22440.4	14929.1
48°	15084.0	15343.4	16269.2	18618.1	21518.2	24829.0	25920.5	25448.6	22245.9	22253.1	14821.0
50°	11150.0	11103.1	12256.0	15138.0	19219.7	23330.3	25207.2	25574.7	22242.3	21305.6	14064.5
52.5°	5890.2	6092.0	6931.4	9518.0	13588.9	19093.7	22235.1	22807.9	21456.9	19756.5	12976.5
55°	2503.8	2262.4	2907.3	4297.9	7644.7	12756.7	16312.5	17587.8	18142.6	17483.3	11351.7
57.5°	893.4	976.3	1124.0	1617.6	3213.5	6981.8	9727.0	10717.7	12569.4	12828.8	7734.7
60°	572.8	583.6	630.5	742.1	1206.9	2691.1	4614.9	5403.9	6243.3	6445.0	3609.8
62.5°	443.1	446.7	468.3	486.3	572.8	1044.7	1732.8	2053.5	2132.7	1833.7	947.5
65°	371.1	374.7	381.9	381.9	407.1	490.0	605.2	666.5	648.5	641.3	536.8
67.5°	284.6	291.8	306.2	306.2	320.6	299.0	335.0	356.7	403.5	490.0	457.5
70°	223.4	227.0	237.8	245.0	245.0	216.2	241.4	263.0	295.4	363.9	360.3
72.5°	172.9	180.1	187.3	187.3	176.5	147.7	172.9	190.9	212.6	252.2	245.0
75°	133.3	133.3	136.9	111.7	86.5	75.7	104.5	126.1	158.5	165.7	136.9
77.5°	36.0	39.6	36.0	32.4	36.0	54.0	68.4	79.3	100.9	100.9	90.1
80°	0.0	3.6	10.8	21.6	36.0	50.4	61.2	68.4	79.3	86.5	82.9
82.5°	0.0	3.6	10.8	21.6	32.4	39.6	54.0	57.6	64.8	75.7	75.7
85°	0.0	3.6	7.2	14.4	21.6	25.2	25.2	21.6	21.6	18.0	14.4
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	10.8	10.8	10.8	10.8	10.8
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°	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7	7136.7
2.5°	7172.7	7061.0	6891.7	6625.1	6369.4	6203.6	6045.1	5868.6	5771.3	5764.1	5710.1
5°	7259.2	7007.0	6603.5	6146.0	5656.0	5234.5	4809.4	4532.0	4283.5	4146.6	4121.3
7.5°	7306.0	6978.2	6326.1	5558.8	4723.0	4034.9	3559.3	3209.9	3073.0	2972.1	2968.5
10°	7403.3	6927.8	5911.8	4780.6	3746.7	3051.4	2723.5	2565.0	2489.4	2460.6	2417.3
12.5°	7475.3	6834.1	5486.7	3980.8	2961.3	2529.0	2384.9	2348.9	2352.5	2366.9	2348.9
15°	7576.2	6751.2	4913.9	3267.5	2485.8	2276.8	2276.8	2284.0	2334.5	2341.7	2338.1
17.5°	7569.0	6589.1	4323.1	2691.1	2197.6	2168.8	2179.6	2248.0	2280.4	2291.2	2266.0
20°	7655.5	6437.8	3714.3	2298.4	2035.5	2078.7	2150.7	2168.8	2208.4	2215.6	2186.8
22.5°	7630.3	6059.5	3148.7	1988.6	1913.0	1995.8	2067.9	2089.5	2078.7	2057.1	2053.5
25°	7583.4	5735.3	2629.9	1783.3	1822.9	1913.0	1981.4	1941.8	1920.2	1923.8	1927.4
27.5°	7500.6	5324.6	2201.2	1639.2	1700.4	1833.7	1830.1	1815.7	1837.3	1819.3	1837.3
30°	7486.2	4913.9	1848.1	1509.5	1610.4	1707.6	1714.8	1740.0	1765.3	1732.8	1765.3
32.5°	7507.8	4463.6	1595.9	1430.2	1556.3	1559.9	1639.2	1664.4	1646.4	1574.3	1581.5
35°	7673.5	4117.7	1412.2	1387.0	1469.9	1473.5	1549.1	1516.7	1437.4	1394.2	1419.4
37.5°	8022.9	3829.5	1325.7	1347.4	1354.6	1401.4	1405.0	1340.2	1347.4	1343.8	1358.2
40°	8469.7	3609.8	1264.5	1311.3	1304.1	1336.6	1206.9	1242.9	1275.3	1286.1	1293.3
42.5°	8775.9	3451.3	1224.9	1253.7	1239.3	1181.6	1109.6	1145.6	1170.8	1210.5	1217.7
45°	8912.8	3325.2	1178.0	1152.8	1152.8	1048.3	1019.5	1026.7	1084.4	1127.6	1120.4
47.5°	8689.4	3202.7	1095.2	1019.5	1044.7	958.3	925.9	925.9	987.1	1041.1	1030.3
48°	8603.0	3152.3	1098.8	990.7	1008.7	943.9	911.5	904.2	972.7	1023.1	1023.1
50°	8174.2	2964.9	1005.1	911.5	875.4	868.2	846.6	853.8	897.0	943.9	943.9
52.5°	7338.4	2561.4	850.2	781.8	716.9	760.1	771.0	756.5	778.2	821.4	817.8
55°	6124.4	1967.0	680.9	648.5	598.0	644.9	666.5	648.5	626.8	659.3	659.3
57.5°	3923.2	1059.2	544.0	551.2	500.8	547.6	565.6	522.4	482.7	508.0	504.4
60°	1768.9	634.1	446.7	435.9	403.5	457.5	486.3	435.9	381.9	399.9	417.9
62.5°	662.9	450.3	338.6	331.4	324.2	374.7	389.1	349.4	295.4	306.2	309.8
65°	486.3	396.3	270.2	245.0	259.4	295.4	288.2	248.6	212.6	212.6	219.8
67.5°	414.3	345.8	219.8	190.9	190.9	194.5	180.1	158.5	147.7	154.9	162.1
70°	324.2	273.8	172.9	147.7	133.3	118.9	104.5	100.9	90.1	100.9	97.3
72.5°	208.9	183.7	133.3	111.7	100.9	82.9	68.4	64.8	54.0	50.4	50.4
75°	111.7	111.7	104.5	90.1	79.3	64.8	54.0	43.2	28.8	21.6	21.6
77.5°	79.3	86.5	93.7	86.5	72.1	54.0	43.2	28.8	14.4	7.2	7.2
80°	75.7	86.5	93.7	82.9	72.1	54.0	39.6	21.6	10.8	3.6	3.6
82.5°	68.4	79.3	86.5	75.7	64.8	46.8	36.0	21.6	10.8	3.6	3.6
85°	14.4	18.0	21.6	21.6	25.2	32.4	25.2	18.0	7.2	3.6	3.6
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	7.2	7.2	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

(END OF REPORT)