

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: P530443

Luminaire Tested: **GALN-SA5C-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16361 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 269
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

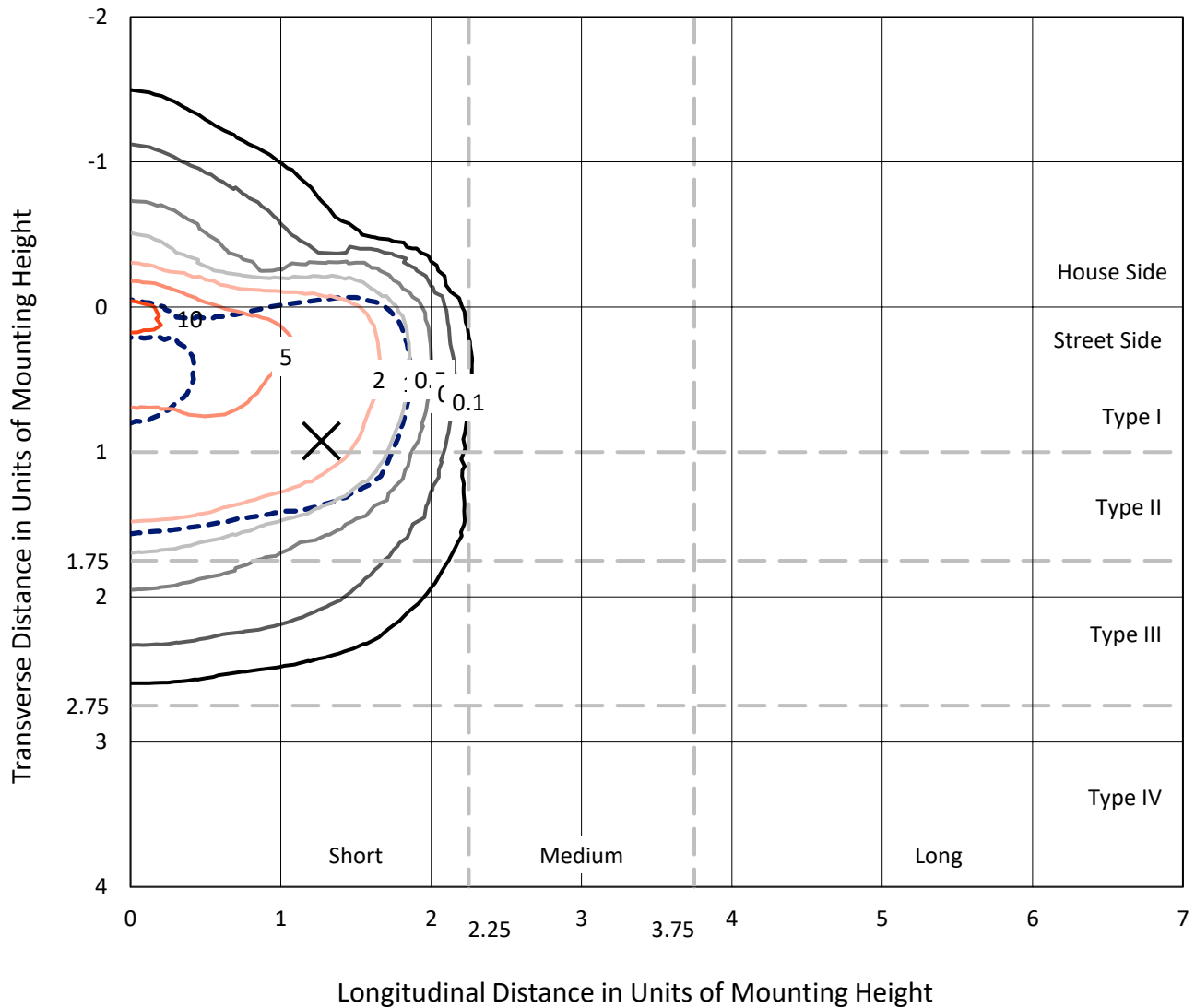


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Iso-Footcandle Lines of Horizontal Illumination

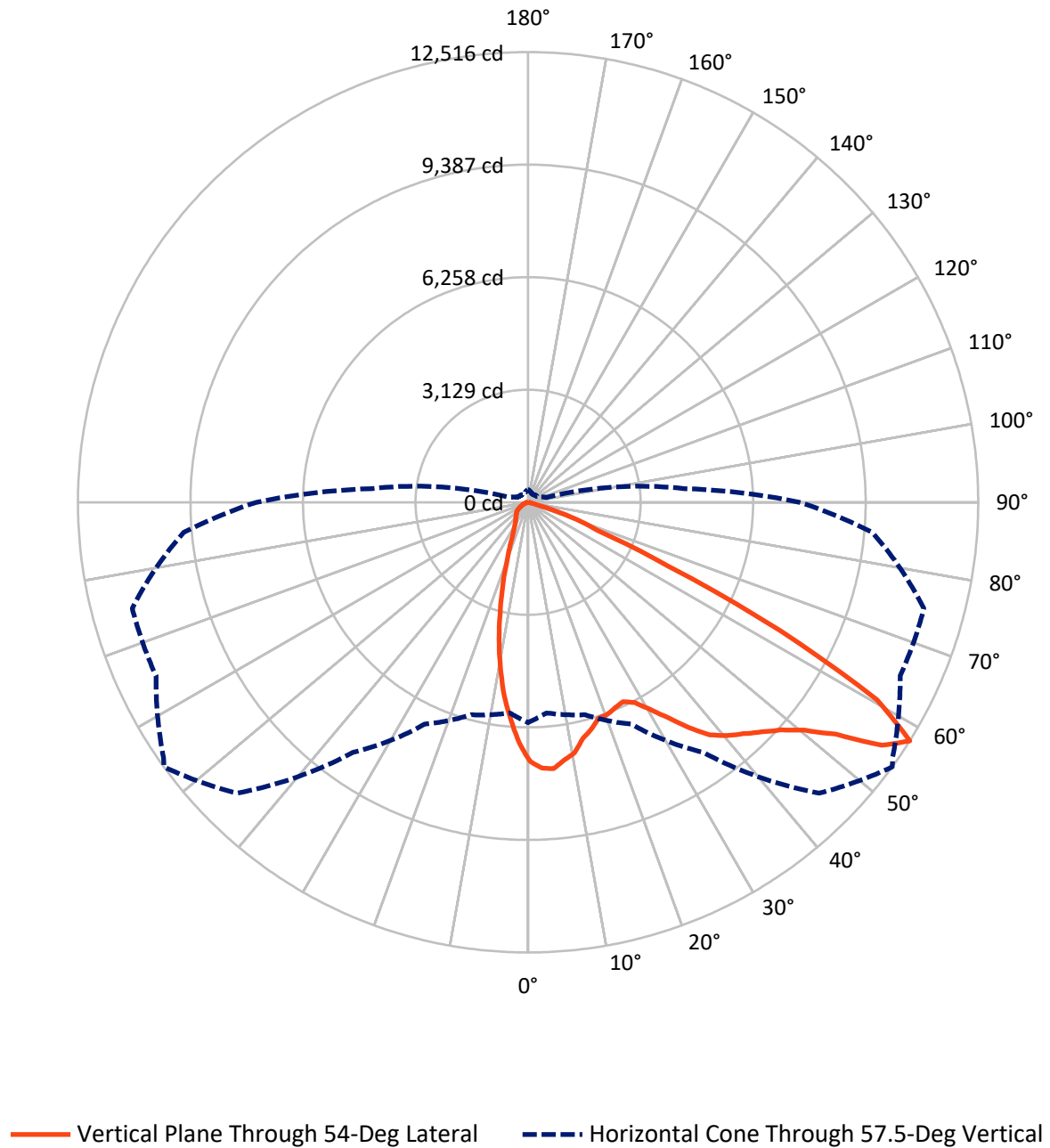
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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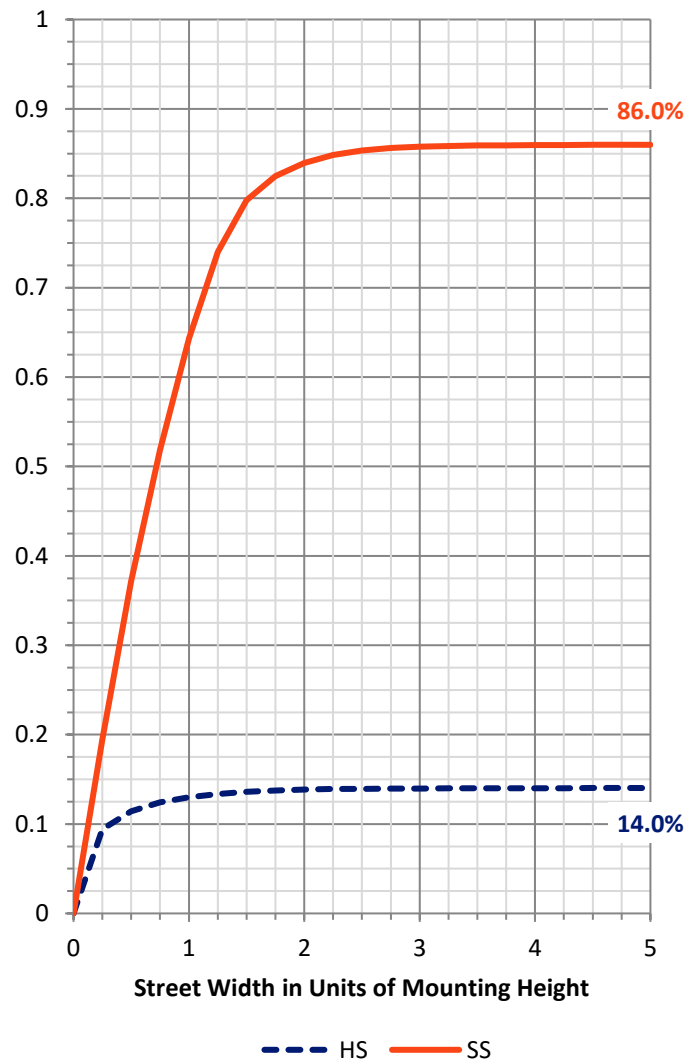
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2312.1	0.0	2312.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14048.9	0.0	14048.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	16361.0	0.0	16361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.1	3.7
10°-20°	1287.6	7.9
20°-30°	1706.4	10.4
30°-40°	2479.8	15.2
40°-50°	3677.3	22.5
50°-60°	4598.3	28.1
60°-70°	1813.8	11.1
70°-80°	180.6	1.1
80°-90°	14.0	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°	16361.0	100.0
0°-180°	16361.0	100.0

Coefficient of Utilization



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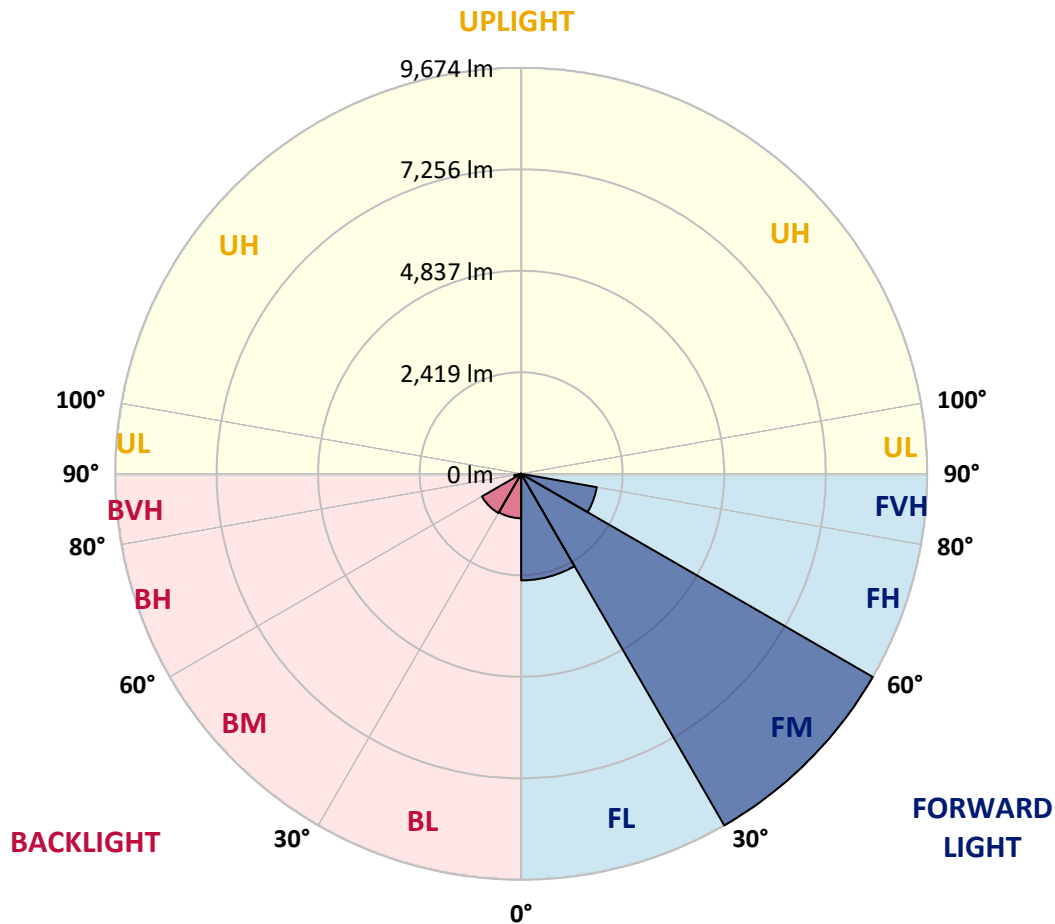
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2539.7	15.5			
FM	(30°-60°)	9674.2	59.1			
FH	(60°-80°)	1828.6	11.2			G2/5000
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	1057.4	6.5	B3/2500		
BM	(30°-60°)	1081.2	6.6	B2/2500		
BH	(60°-80°)	165.8	1.0	B1/500		G1/500
BVH	(80°-90°)	7.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2
2.5°	7627.1	7548.0	7554.1	7526.7	7490.2	7517.6	7398.9	7426.3	7423.2	7262.0	7155.5
5°	7435.4	7520.6	7432.4	7505.4	7435.4	7511.5	7438.5	7383.7	7295.5	7176.8	6979.1
7.5°	7109.9	7027.7	7052.1	7143.4	7158.6	7328.9	7237.7	7307.6	7271.1	7036.9	6766.1
10°	6455.8	6437.5	6559.2	6680.9	6830.0	7012.5	7082.5	7043.0	7015.6	6927.3	6565.3
12.5°	5953.8	6005.5	6002.5	6203.3	6455.8	6559.2	6741.8	6735.7	6887.8	6723.5	6376.7
15°	5476.2	5503.5	5631.3	5756.1	6036.0	6331.1	6556.2	6586.6	6769.1	6653.5	6230.7
17.5°	5184.1	5144.6	5244.9	5394.0	5680.0	6066.4	6315.8	6388.9	6638.3	6614.0	6063.3
20°	4895.1	4895.1	4977.2	5153.7	5415.3	5850.4	6294.5	6273.3	6638.3	6568.4	5883.8
22.5°	4797.7	4846.4	4867.7	5001.6	5311.9	5686.1	6203.3	6242.8	6690.0	6547.1	5804.7
25°	4931.6	4867.7	4873.8	4980.3	5272.3	5607.0	6136.3	6224.6	6784.4	6653.5	5740.8
27.5°	4952.9	5016.8	5035.0	5108.0	5302.8	5631.3	6303.7	6483.2	7018.6	6903.0	5759.1
30°	5138.5	5202.4	5199.3	5324.0	5457.9	5829.1	6677.9	6714.4	7502.3	7216.4	5871.7
32.5°	5363.6	5430.5	5451.8	5597.9	5704.3	6191.1	7134.2	7228.5	7967.8	7709.2	6166.8
35°	5643.5	5619.2	5716.5	5862.5	6090.7	6720.5	7691.0	7849.2	8469.8	8348.1	6471.0
37.5°	5993.4	5962.9	6057.2	6294.5	6604.9	7347.2	8205.1	8308.6	8834.9	8941.4	7033.8
40°	6239.8	6252.0	6537.9	6857.4	7185.9	7943.5	8530.6	8631.0	9090.4	9495.1	7459.8
42.5°	6650.5	6726.6	7070.3	7459.8	7803.5	8390.7	8795.3	8892.7	9209.1	9939.2	8034.8
45°	7246.8	7213.3	7593.6	8028.7	8409.0	8856.2	9108.7	9075.2	9279.1	10380.4	8396.8
47.5°	8013.5	8019.5	8272.1	8643.2	9038.7	9260.8	9458.6	9339.9	9425.1	10845.8	8880.5
50°	8536.7	8582.4	8786.2	9166.5	9364.2	9705.0	9957.5	9884.5	9857.1	11125.7	9184.7
52.5°	8670.6	8807.5	8917.0	9391.6	9854.1	10392.5	10715.0	10870.2	10383.4	11220.1	9571.1
55°	7660.5	7782.2	8168.6	8819.7	10039.6	11481.7	11925.9	11928.9	11071.0	11639.9	9841.9
57.5°	6124.2	5877.7	6115.1	6805.7	8488.1	11436.1	12516.1	12373.1	11414.8	11393.5	9607.6
60°	4234.9	4174.1	4189.3	4463.1	5874.7	9096.5	11153.1	11338.7	10511.2	9875.3	7605.8
62.5°	3355.7	3304.0	3237.0	3206.6	3647.7	5667.8	7867.4	8129.1	7350.2	6404.1	4508.7
65°	2628.6	2598.1	2607.3	2729.0	2725.9	3215.7	4301.8	4195.4	3358.7	2482.5	1417.7
67.5°	1773.7	1819.3	1855.8	2223.9	2412.6	2239.1	2077.9	2017.1	1092.2	459.4	313.4
70°	997.9	1004.0	1043.5	1390.3	1831.5	1737.2	1432.9	1432.9	544.6	167.3	179.5
72.5°	544.6	526.3	489.8	599.3	815.3	827.5	638.9	556.7	161.2	109.5	100.4
75°	264.7	261.6	225.1	185.6	176.5	146.0	112.6	103.4	73.0	70.0	60.8
77.5°	54.8	51.7	27.4	27.4	30.4	33.5	42.6	42.6	51.7	51.7	42.6
80°	0.0	0.0	3.0	12.2	21.3	30.4	36.5	36.5	42.6	42.6	33.5
82.5°	0.0	0.0	3.0	9.1	18.3	27.4	33.5	36.5	42.6	45.6	36.5
85°	0.0	0.0	0.0	6.1	15.2	21.3	18.3	18.3	15.2	12.2	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2	7207.2
2.5°	7100.8	7094.7	6954.7	6875.6	6732.6	6607.9	6507.5	6434.5	6434.5	6388.9	6346.3
5°	6900.0	6848.2	6550.1	6358.4	6087.7	5886.9	5750.0	5643.5	5476.2	5521.8	5342.3
7.5°	6650.5	6519.7	6124.2	5832.1	5457.9	5171.9	4879.9	4621.3	4371.8	4259.2	4320.1
10°	6382.8	6154.6	5622.2	5159.8	4694.3	4171.0	3830.3	3416.5	3161.0	3145.8	3078.8
12.5°	6099.8	5841.2	5193.2	4554.3	3942.8	3313.1	2792.8	2406.5	2233.1	2041.4	2077.9
15°	5886.9	5503.5	4715.6	3945.9	3133.6	2497.7	1974.5	1676.3	1512.0	1466.4	1451.2
17.5°	5655.7	5244.9	4228.8	3297.9	2458.2	1798.0	1420.8	1277.8	1213.9	1213.9	1204.8
20°	5415.3	4952.9	3745.1	2695.5	1843.6	1341.7	1137.8	1092.2	1089.1	1086.1	1086.1
22.5°	5257.1	4618.2	3307.0	2141.8	1390.3	1073.9	988.8	970.5	982.7	1019.2	1019.2
25°	5089.8	4295.7	2823.3	1652.0	1077.0	921.8	873.1	885.3	915.7	949.2	937.0
27.5°	4919.4	4085.8	2366.9	1296.0	882.3	806.2	788.0	815.3	848.8	879.2	870.1
30°	4879.9	3860.7	1934.9	982.7	757.5	702.8	714.9	739.3	772.7	784.9	797.1
32.5°	4940.7	3684.2	1585.0	806.2	660.2	645.0	645.0	657.1	678.4	705.8	696.7
35°	5114.1	3583.8	1253.4	699.7	605.4	590.2	587.2	599.3	611.5	620.6	611.5
37.5°	5378.8	3504.7	1025.3	620.6	568.9	544.6	538.5	535.4	547.6	550.7	556.7
40°	5716.5	3547.3	870.1	572.0	532.4	505.0	486.8	486.8	486.8	495.9	498.9
42.5°	6081.6	3605.1	751.5	544.6	498.9	465.5	447.2	441.1	447.2	459.4	456.3
45°	6464.9	3717.7	675.4	502.0	468.5	425.9	401.6	395.5	410.7	435.1	432.0
47.5°	6823.9	3878.9	617.6	474.6	438.1	398.5	368.1	362.0	389.4	422.9	425.9
50°	7182.9	4158.8	596.3	453.3	416.8	371.2	343.8	337.7	368.1	410.7	419.8
52.5°	7596.7	4460.0	581.1	425.9	392.5	349.9	319.4	313.4	346.8	401.6	404.6
55°	7867.4	4715.6	568.9	377.2	346.8	316.4	292.1	289.0	325.5	374.2	386.4
57.5°	7551.0	4359.6	526.3	328.6	295.1	279.9	258.6	258.6	289.0	334.7	343.8
60°	5725.6	2868.9	374.2	264.7	249.5	240.3	231.2	231.2	255.6	289.0	292.1
62.5°	3352.6	1545.5	240.3	213.0	213.0	203.8	188.6	188.6	213.0	231.2	234.3
65°	994.8	495.9	194.7	182.5	179.5	164.3	149.1	146.0	164.3	173.4	170.4
67.5°	286.0	228.2	161.2	152.1	149.1	124.7	115.6	112.6	115.6	109.5	106.5
70°	170.4	155.2	124.7	127.8	112.6	91.3	82.1	79.1	73.0	63.9	57.8
72.5°	94.3	94.3	91.3	97.4	79.1	60.8	51.7	42.6	33.5	27.4	24.3
75°	57.8	60.8	63.9	66.9	51.7	39.6	33.5	21.3	12.2	6.1	6.1
77.5°	39.6	42.6	45.6	48.7	42.6	36.5	27.4	15.2	3.0	0.0	0.0
80°	30.4	33.5	39.6	42.6	45.6	48.7	36.5	15.2	3.0	0.0	0.0
82.5°	33.5	36.5	45.6	42.6	42.6	42.6	33.5	15.2	3.0	0.0	0.0
85°	6.1	9.1	15.2	15.2	21.3	27.4	21.3	6.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)