

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: P456144

Luminaire Tested: **GALN-SA7B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28878 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

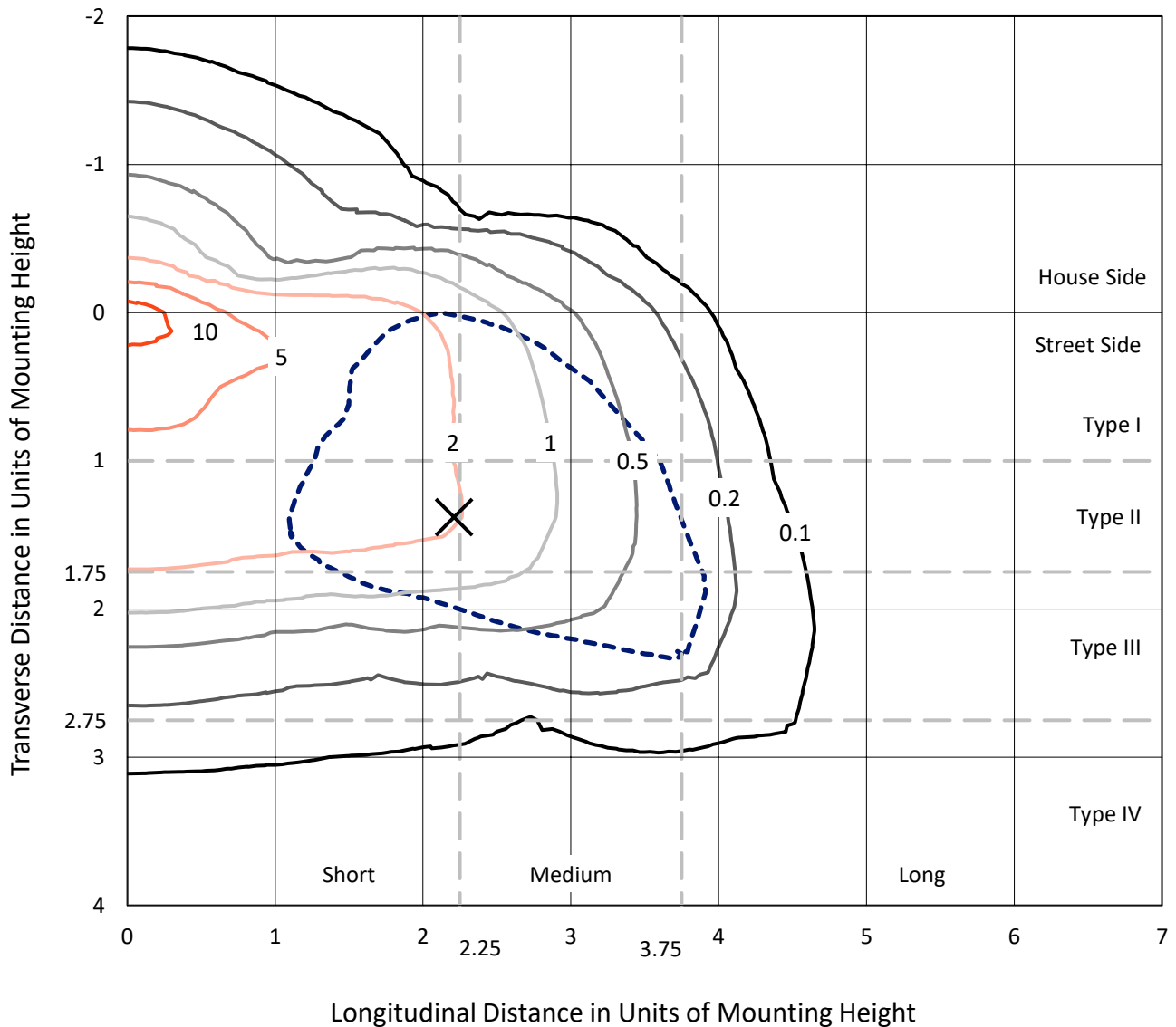
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

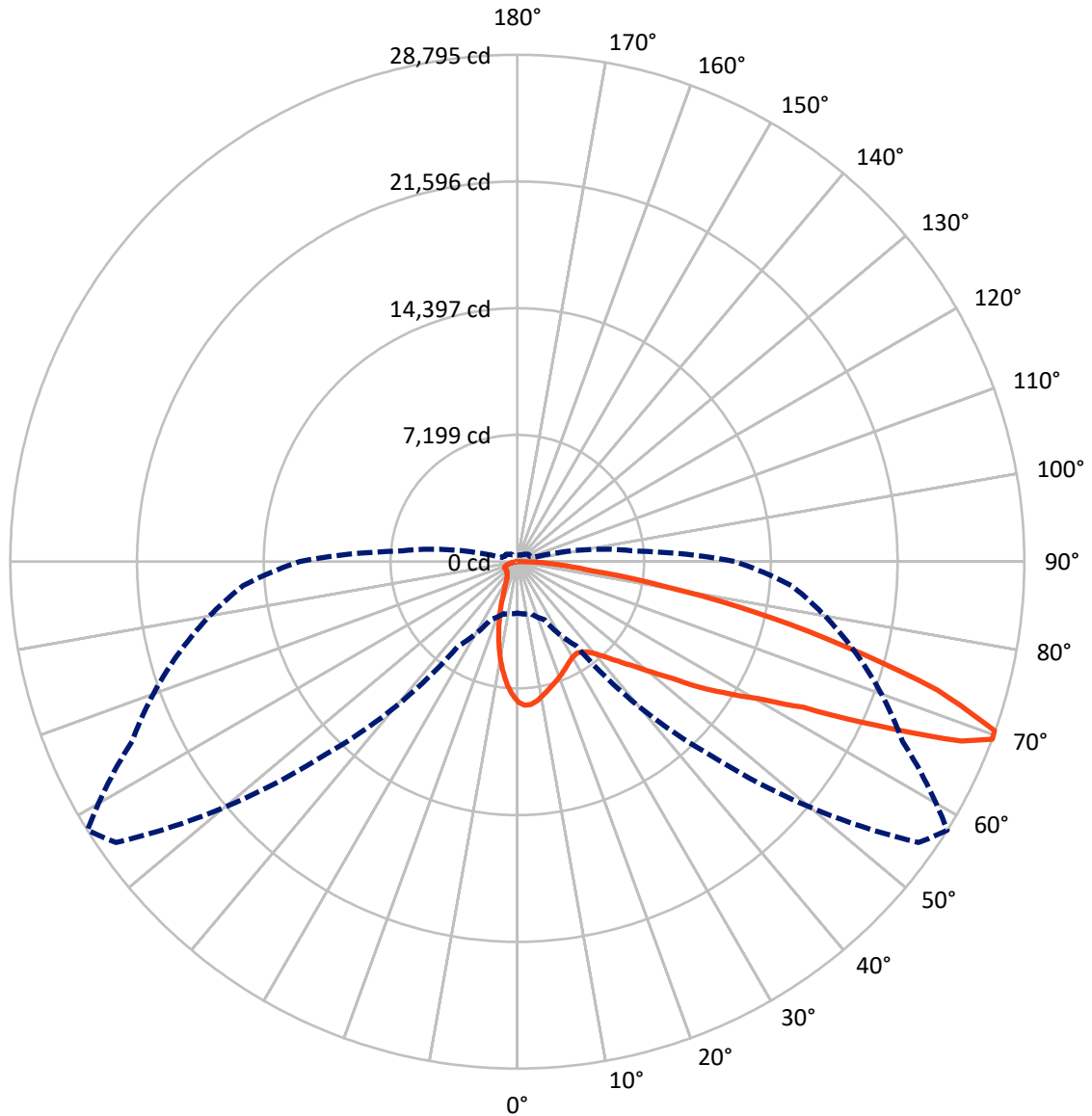
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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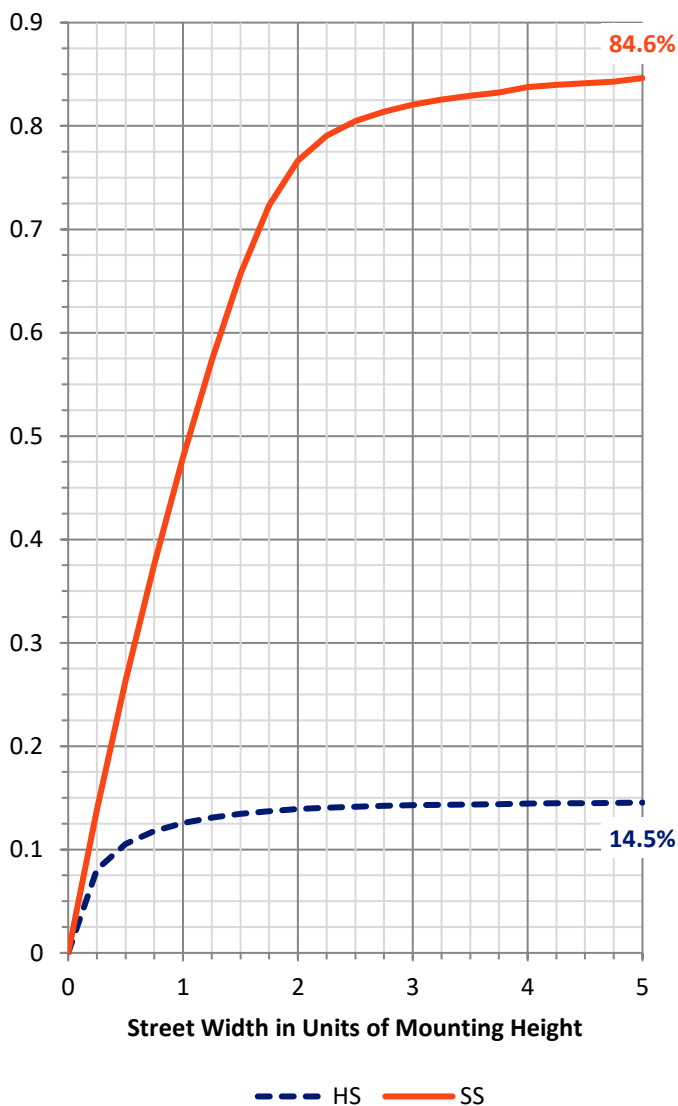
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4232.1	0.0	4232.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24645.9	0.0	24645.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	28878.0	0.0	28878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.7	2.3
10°-20°	1488.1	5.2
20°-30°	1922.7	6.7
30°-40°	2497.2	8.6
40°-50°	3630.6	12.6
50°-60°	5793.2	20.1
60°-70°	7739.0	26.8
70°-80°	4461.2	15.4
80°-90°	668.2	2.3
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°	28878.0	100.0
0°-180°	28878.0	100.0

Coefficient of Utilization



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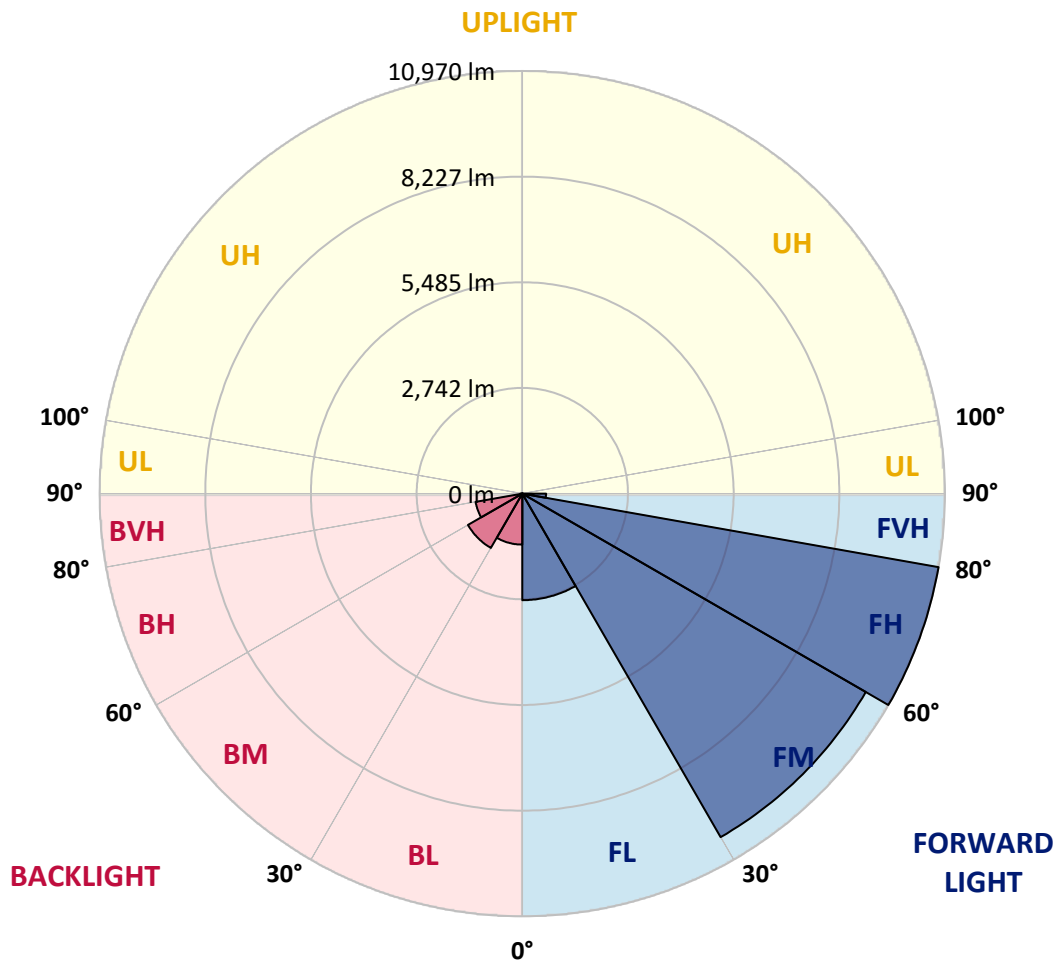
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.8	9.6			
FM (30°-60°)	10293.5	35.6			
FH (60°-80°)	10969.6	38.0			G4/12000
FVH (80°-90°)	617.0	2.1			G4/750
BL (0°-30°)	1322.8	4.6	B3/2500		
BM (30°-60°)	1627.5	5.6	B2/2500		
BH (60°-80°)	1230.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	51.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2
2.5°	8276.5	8299.1	8292.6	8284.6	8271.7	8236.3	8178.3	8168.6	8131.6	8052.7	7954.4
5°	8149.3	8168.6	8170.2	8181.5	8197.6	8191.2	8149.3	8144.5	8089.7	7983.4	7819.1
7.5°	7712.8	7738.6	7795.0	7857.8	7914.2	7967.3	7980.2	7988.2	7954.4	7832.0	7613.0
10°	7221.6	7247.4	7273.2	7366.6	7505.1	7637.1	7746.7	7761.2	7769.2	7656.5	7389.1
12.5°	6677.3	6730.4	6785.2	6923.7	7108.9	7316.6	7509.9	7540.5	7595.3	7509.9	7195.9
15°	6215.0	6269.8	6348.7	6472.7	6696.6	6996.2	7268.3	7318.3	7426.2	7382.7	7015.5
17.5°	5894.5	5913.9	5968.6	6110.4	6351.9	6667.6	7031.6	7131.4	7303.8	7292.5	6860.9
20°	5641.7	5665.9	5699.7	5786.6	6037.9	6371.3	6810.9	6939.8	7173.3	7212.0	6707.9
22.5°	5535.4	5553.1	5548.3	5595.0	5765.7	6100.7	6587.1	6740.1	7057.4	7157.2	6566.1
25°	5541.8	5557.9	5533.8	5522.5	5624.0	5862.3	6353.6	6548.4	6963.9	7120.2	6437.3
27.5°	5649.7	5661.0	5615.9	5570.8	5578.9	5714.2	6160.3	6376.1	6885.0	7136.3	6329.4
30°	5794.7	5815.6	5786.6	5731.9	5672.3	5678.7	6036.3	6248.9	6848.0	7192.6	6277.9
32.5°	5981.5	6000.8	5988.0	5944.5	5867.2	5781.8	6005.7	6202.2	6851.2	7307.0	6266.6
35°	6178.0	6216.7	6237.6	6234.4	6171.6	6023.4	6126.5	6289.1	6928.5	7498.6	6332.6
37.5°	6400.3	6432.5	6522.7	6580.6	6522.7	6350.3	6398.6	6511.4	7099.2	7775.7	6477.6
40°	6616.1	6664.4	6796.4	6976.8	6954.3	6802.9	6814.2	6888.2	7400.4	8187.9	6761.0
42.5°	6841.5	6899.5	7129.8	7397.2	7450.3	7332.8	7363.4	7429.4	7828.8	8759.7	7247.4
45°	7131.4	7200.7	7484.1	7817.5	8026.9	7954.4	8041.4	8073.6	8402.1	9503.8	7888.4
47.5°	7505.1	7585.6	7935.1	8350.6	8646.9	8713.0	8864.4	8845.0	9112.4	10384.7	8719.4
50°	8134.8	8179.9	8510.1	8933.6	9341.1	9639.0	9803.3	9833.9	9993.4	11241.5	9648.7
52.5°	8883.7	8924.0	9162.3	9532.7	10043.3	10674.6	11080.5	10980.6	11019.3	12285.1	10735.8
55°	9726.0	9793.6	9945.0	10191.4	10853.4	11782.7	12597.6	12621.7	12193.3	13283.7	11777.8
57.5°	10378.3	10492.6	10751.9	11103.0	11942.1	13014.7	14109.9	14126.0	13578.4	14349.8	12927.7
60°	10049.7	10185.0	10777.7	11632.9	13370.6	15164.8	15916.9	15825.1	14926.4	15564.2	14330.5
62.5°	8632.5	8656.6	9518.2	10855.0	13810.3	18041.2	18606.5	18218.3	16725.4	17103.9	15755.8
65°	5586.9	5744.8	6427.6	8300.7	12365.7	19637.2	23318.9	22421.8	19247.5	18851.3	16949.2
67.5°	3527.1	3486.8	3770.3	4739.8	8505.2	18231.2	27340.4	27198.7	22545.8	19954.5	16664.2
69°	2924.7	2969.8	3066.5	3633.4	5852.7	15565.8	27815.5	28794.7	24145.1	19867.5	15628.6
70°	2652.5	2673.5	2774.9	3221.1	4515.9	13037.3	27036.0	28751.2	24773.2	19503.5	14878.1
72.5°	2105.0	2103.4	2277.3	2679.9	3375.7	7442.3	22199.6	24961.6	24071.0	17809.3	12293.2
75°	1599.3	1625.0	1816.7	2267.6	3109.9	4066.6	15491.7	19223.3	19224.9	14066.4	7671.0
77.5°	1153.1	1169.2	1393.1	1903.6	2929.6	3296.8	10318.7	13787.8	12961.6	6445.4	2411.0
80°	755.3	765.0	935.7	1507.5	2641.3	3109.9	6118.4	8439.2	6113.6	1710.4	797.2
82.5°	413.9	462.2	571.7	976.0	2119.5	2873.2	3718.7	4271.1	2293.4	761.8	415.5
85°	207.8	220.6	322.1	570.1	1385.1	2377.1	2589.7	2449.6	1183.7	378.5	215.8
87.5°	61.2	77.3	133.7	220.6	562.1	1238.5	1441.4	1293.3	455.8	136.9	45.1
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°	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2	7980.2
2.5°	7914.2	7885.2	7756.3	7640.4	7534.1	7421.3	7326.3	7242.6	7250.6	7252.2	7166.9
5°	7733.8	7667.7	7422.9	7194.2	7001.0	6756.2	6546.8	6411.5	6343.9	6253.7	6285.9
7.5°	7489.0	7361.7	7021.9	6641.8	6285.9	5968.6	5624.0	5387.2	5235.8	5089.3	5108.6
10°	7236.1	7031.6	6537.2	6034.7	5574.1	5066.7	4627.1	4250.2	3970.0	3865.3	3796.0
12.5°	6976.8	6707.9	6079.8	5411.4	4775.2	4168.1	3544.8	3140.5	2831.3	2667.0	2688.0
15°	6740.1	6413.1	5603.0	4788.1	3961.9	3238.8	2617.1	2232.2	2016.4	1971.3	1997.1
17.5°	6521.0	6092.6	5156.9	4182.6	3217.8	2428.7	1966.5	1749.0	1662.1	1637.9	1636.3
20°	6295.6	5820.5	4656.0	3535.1	2507.6	1882.7	1613.8	1512.3	1496.2	1505.8	1507.5
22.5°	6066.9	5483.9	4140.7	2892.5	1997.1	1539.7	1410.8	1383.4	1396.3	1418.9	1422.1
25°	5855.9	5187.5	3644.6	2328.8	1594.4	1352.8	1290.0	1290.0	1319.0	1352.8	1354.5
27.5°	5682.0	4900.9	3150.2	1848.9	1335.1	1217.6	1196.6	1207.9	1248.2	1273.9	1275.5
30°	5538.6	4633.5	2683.1	1481.7	1174.1	1109.7	1104.8	1124.2	1153.1	1177.3	1178.9
32.5°	5430.7	4398.4	2246.7	1244.9	1063.0	1027.5	1025.9	1040.4	1056.5	1063.0	1069.4
35°	5388.8	4203.5	1847.3	1095.2	988.9	966.3	966.3	964.7	971.2	974.4	977.6
37.5°	5422.7	4053.7	1538.1	998.5	934.1	918.0	908.3	898.7	895.5	895.5	897.1
40°	5566.0	3974.8	1307.8	935.7	895.5	871.3	853.6	842.3	831.0	834.3	837.5
42.5°	5870.4	3989.3	1151.5	893.8	861.6	827.8	802.0	789.2	781.1	790.8	789.2
45°	6355.2	4134.2	1051.7	864.9	827.8	784.3	760.2	747.3	747.3	761.8	766.6
47.5°	7033.2	4411.2	998.5	842.3	802.0	750.5	726.4	716.7	719.9	744.1	745.7
50°	7861.0	4892.8	988.9	831.0	789.2	726.4	699.0	689.3	697.4	723.1	726.4
52.5°	8774.2	5512.9	1035.6	832.6	777.9	711.9	676.4	661.9	670.0	690.9	697.4
55°	9856.5	6289.1	1156.4	839.1	761.8	703.8	660.3	628.1	637.8	652.3	653.9
57.5°	10961.3	7268.3	1369.0	840.7	748.9	689.3	632.9	591.1	591.1	600.7	605.6
60°	12310.9	8334.5	1649.2	842.3	750.5	668.4	595.9	549.2	542.7	547.6	549.2
62.5°	13650.9	9226.7	1695.9	837.5	766.6	647.4	555.6	507.3	496.0	494.4	491.2
65°	14241.9	9060.9	1389.9	814.9	784.3	634.5	523.4	467.1	447.7	441.3	441.3
67.5°	13278.8	7664.5	1045.2	784.3	773.1	621.7	492.8	433.2	410.7	397.8	397.8
69°	12373.7	6817.4	938.9	763.4	744.1	600.7	473.5	415.5	388.1	373.6	368.8
70°	11674.8	6234.4	893.8	745.7	716.7	576.6	459.0	402.6	372.0	355.9	352.7
72.5°	9316.9	4891.2	782.7	678.0	610.4	484.8	407.5	362.4	333.4	315.7	310.8
75°	5369.5	2650.9	649.0	589.5	491.2	376.9	344.7	315.7	293.1	277.0	272.2
77.5°	1652.4	1024.3	470.3	465.4	360.8	291.5	275.4	264.1	248.0	230.3	227.1
80°	695.8	521.8	318.9	314.1	240.0	202.9	198.1	196.5	190.0	175.5	170.7
82.5°	381.7	294.7	222.3	193.3	144.9	117.6	122.4	124.0	119.2	104.7	95.0
85°	186.8	161.1	107.9	87.0	66.0	41.9	40.3	48.3	45.1	32.2	35.4
87.5°	37.0	45.1	29.0	12.9	6.4	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)