

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: P528806

Luminaire Tested: **GALN-SA3D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15525 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

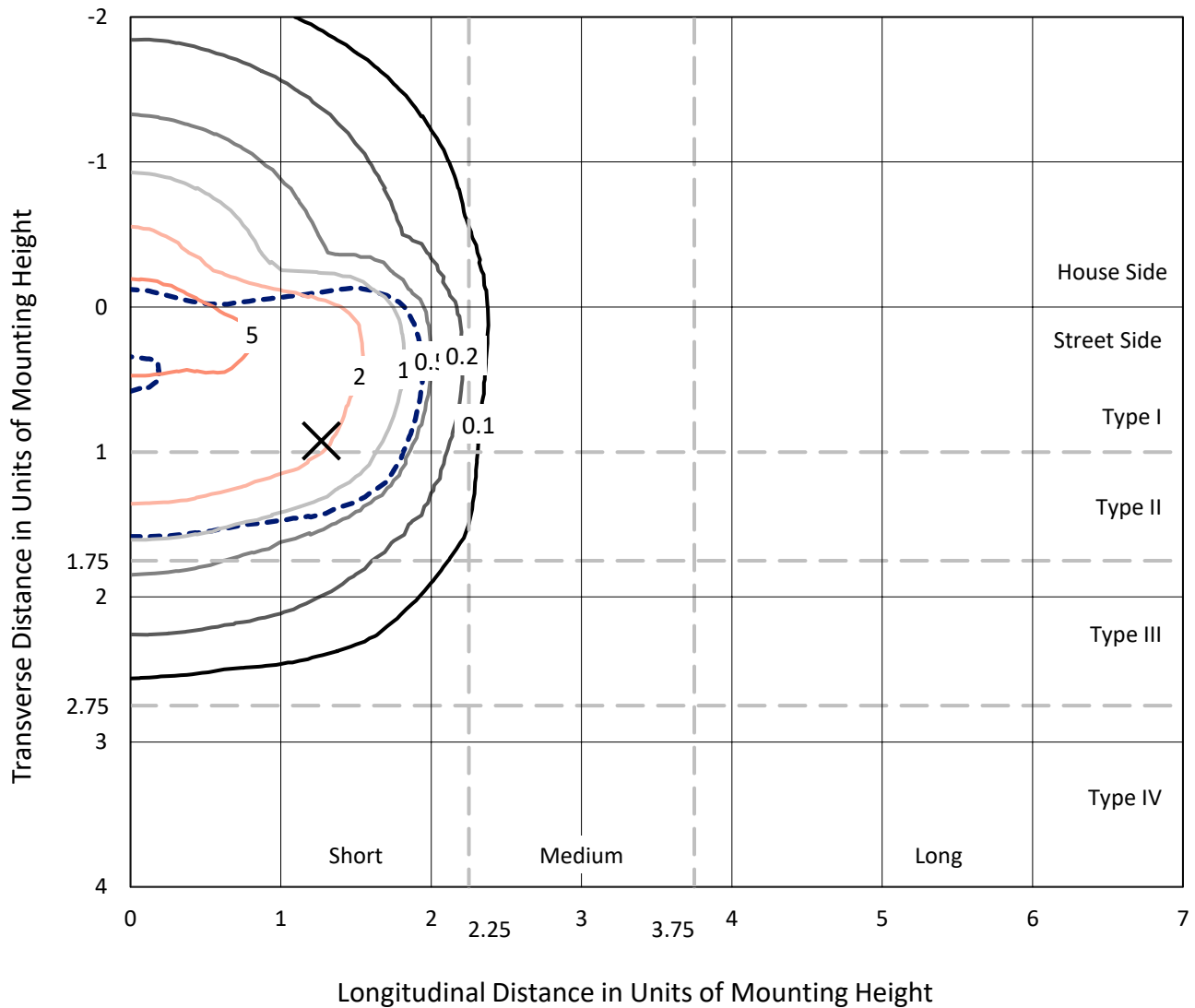
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

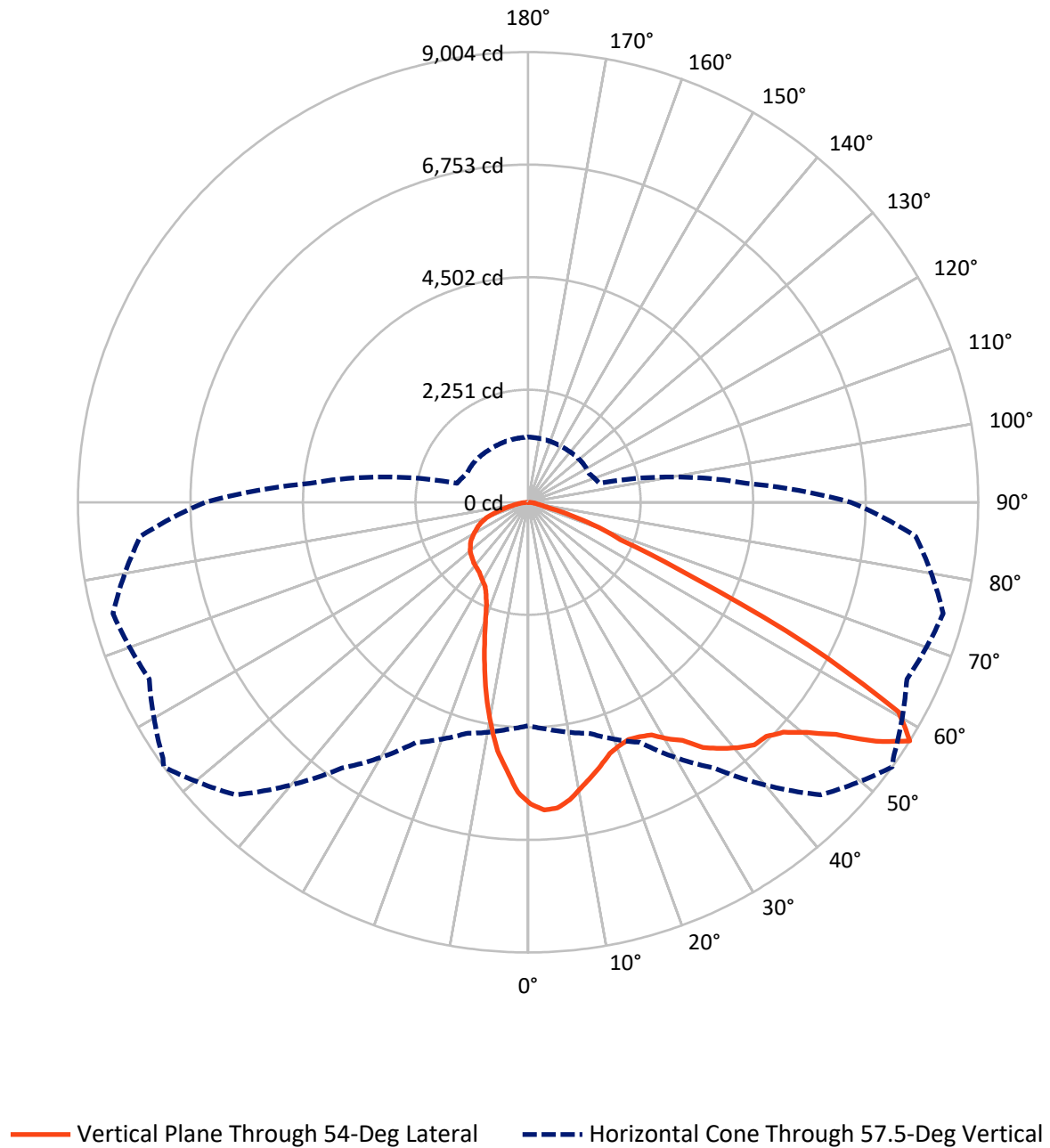
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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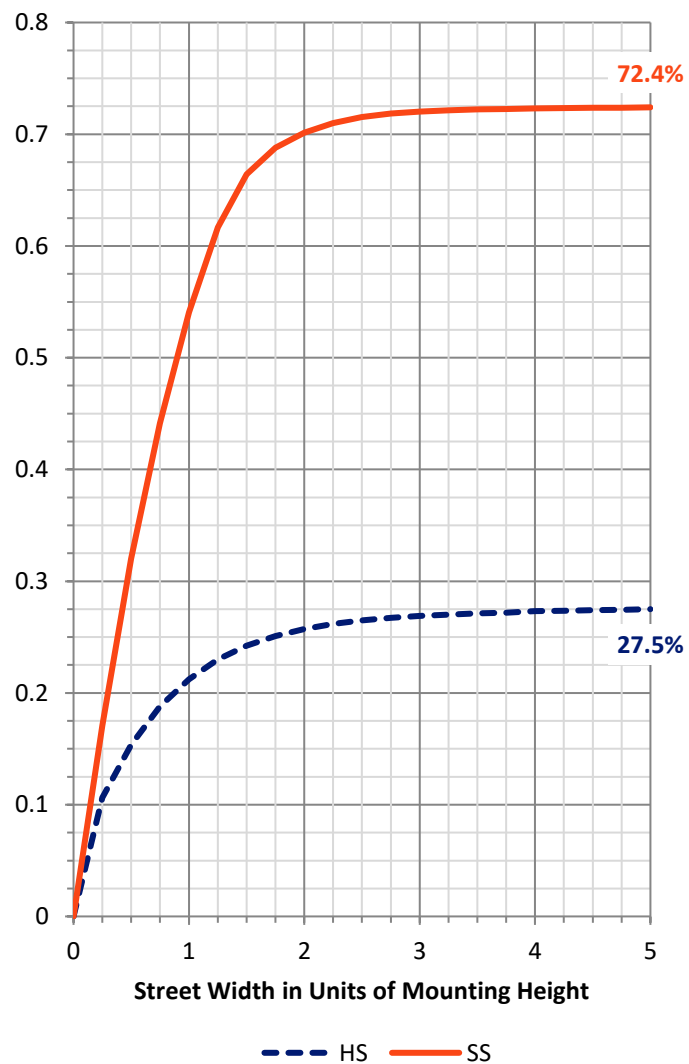
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4295.1	0.0	4295.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11229.9	0.0	11229.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	15525.0	0.0	15525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.4	3.4
10°-20°	1204.9	7.8
20°-30°	1692.9	10.9
30°-40°	2366.8	15.2
40°-50°	3204.1	20.6
50°-60°	3902.8	25.1
60°-70°	2032.7	13.1
70°-80°	520.9	3.4
80°-90°	79.5	0.5
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°	15525.0	100.0
0°-180°	15525.0	100.0

Coefficient of Utilization



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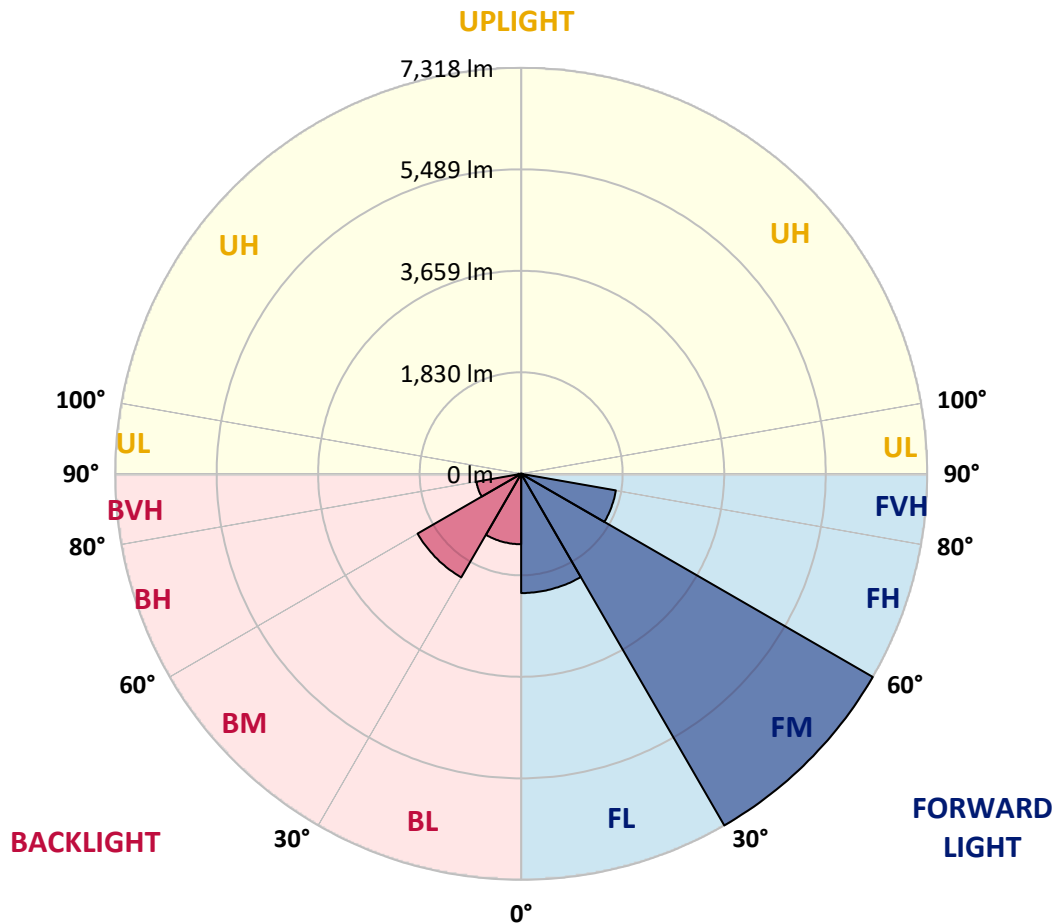
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2148.9	13.8			
FM	(30°-60°)	7318.0	47.1			
FH	(60°-80°)	1733.0	11.2			G1/1800
FVH	(80°-90°)	30.0	0.2			G1/100
BL	(0°-30°)	1269.4	8.2	B3/2500		
BM	(30°-60°)	2155.7	13.9	B2/2500		
BH	(60°-80°)	820.6	5.3	B2/1000		G2/1000
BVH	(80°-90°)	49.4	0.3			G1/100
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°	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4
2.5°	6206.0	6182.1	6186.0	6218.0	6178.1	6162.1	6162.1	6084.3	6090.3	6036.4	6022.4
5°	6062.3	6006.5	6044.4	6092.3	6100.2	6116.2	6142.1	6122.2	6066.3	6008.4	5914.7
7.5°	5687.2	5737.1	5751.0	5785.0	5856.8	5922.6	6004.5	5948.6	5946.6	5888.7	5832.8
10°	5357.9	5328.0	5403.8	5453.7	5573.4	5683.2	5808.9	5802.9	5832.8	5767.0	5671.2
12.5°	5030.7	5006.7	5042.6	5156.4	5324.0	5483.6	5633.3	5577.4	5737.1	5725.1	5519.6
15°	4683.4	4701.4	4753.3	4859.0	5078.5	5270.1	5459.7	5461.7	5603.4	5651.3	5375.9
17.5°	4440.0	4420.0	4485.9	4643.5	4839.1	5068.6	5284.1	5328.0	5545.5	5573.4	5332.0
20°	4258.4	4286.3	4372.1	4452.0	4677.5	4954.8	5198.3	5214.2	5533.5	5609.3	5262.1
22.5°	4214.5	4198.5	4226.5	4356.2	4541.8	4843.1	5152.4	5212.2	5531.5	5597.4	5130.4
25°	4168.6	4220.5	4218.5	4348.2	4483.9	4753.3	5190.3	5256.1	5637.3	5659.2	5148.4
27.5°	4272.4	4266.4	4322.3	4332.2	4499.9	4777.2	5270.1	5320.0	5812.9	5794.9	5162.4
30°	4376.1	4346.2	4380.1	4497.9	4575.7	4914.9	5489.6	5485.6	6040.4	6028.4	5206.3
32.5°	4503.8	4489.9	4511.8	4615.6	4747.3	5098.5	5675.2	5792.9	6271.9	6347.7	5357.9
35°	4527.8	4585.7	4637.5	4777.2	4964.8	5395.8	6024.4	6122.2	6539.3	6776.7	5647.3
37.5°	4679.4	4701.4	4823.1	5070.6	5242.2	5792.9	6245.9	6307.8	6782.7	7052.1	5952.6
40°	4841.1	4867.0	5050.6	5310.0	5545.5	6052.3	6453.4	6473.4	6860.5	7263.6	6152.1
42.5°	5060.6	5084.5	5266.1	5591.4	5906.7	6273.8	6637.0	6659.0	6854.5	7507.1	6469.4
45°	5288.1	5345.9	5559.5	5928.6	6212.0	6533.3	6678.9	6768.7	6910.4	7724.6	6726.8
47.5°	5607.4	5661.2	5836.8	6198.0	6529.3	6760.8	6872.5	6960.3	7044.1	7914.1	6892.5
50°	5946.6	5956.6	6170.1	6497.3	6740.8	7018.2	7233.7	7263.6	7219.7	8133.7	7173.8
52.5°	6196.0	6228.0	6393.6	6712.9	7076.0	7417.3	7712.6	7744.5	7658.7	8215.5	7269.6
55°	5783.0	5765.0	6034.4	6459.4	7301.5	8011.9	8441.0	8464.9	7978.0	8468.9	7582.9
57.5°	4469.9	4555.7	4785.2	5298.1	6487.4	8275.3	9003.7	8917.9	8361.1	8596.6	7782.4
60°	3248.7	3228.7	3382.4	3725.6	4889.0	7131.9	8512.8	8600.6	8047.8	7748.5	6417.5
62.5°	2646.0	2618.1	2630.1	2642.0	3154.9	4733.3	6301.8	6299.8	6198.0	5569.4	4328.2
65°	2115.2	2181.1	2187.1	2276.9	2342.7	2827.6	3651.8	3847.3	3350.4	2747.8	1993.5
67.5°	1594.4	1570.5	1650.3	1969.6	2093.3	2041.4	1993.5	2015.5	1432.8	1033.7	973.8
70°	939.9	929.9	1025.7	1372.9	1724.1	1622.3	1502.6	1504.6	983.8	722.4	804.2
72.5°	514.8	512.8	532.8	696.4	979.8	1017.7	902.0	929.9	586.7	584.7	628.6
75°	287.4	281.4	275.4	307.3	353.2	373.2	381.1	385.1	403.1	451.0	468.9
77.5°	105.8	101.8	101.8	117.7	149.7	187.6	237.5	241.5	285.4	327.3	345.2
80°	35.9	39.9	53.9	73.8	99.8	133.7	161.6	165.6	201.5	229.5	235.5
82.5°	22.0	23.9	35.9	51.9	71.8	93.8	119.7	121.7	149.7	167.6	175.6
85°	10.0	12.0	20.0	31.9	45.9	61.9	63.9	63.9	61.9	63.9	59.9
87.5°	0.0	0.0	4.0	4.0	4.0	6.0	8.0	6.0	10.0	12.0	12.0
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°	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4	6034.4
2.5°	5980.5	5958.6	5890.7	5830.8	5812.9	5733.1	5615.3	5629.3	5543.5	5583.4	5541.5
5°	5898.7	5824.9	5651.3	5577.4	5383.9	5296.1	5236.2	5086.5	5016.7	5002.7	4942.9
7.5°	5689.2	5643.3	5425.8	5226.2	5020.7	4845.1	4619.6	4465.9	4356.2	4326.2	4238.4
10°	5523.5	5421.8	5120.5	4817.1	4523.8	4218.5	3925.1	3695.7	3583.9	3454.2	3410.3
12.5°	5359.9	5206.3	4799.2	4410.1	4030.9	3645.8	3290.6	3011.2	2767.8	2709.9	2689.9
15°	5258.1	4990.7	4511.8	4042.9	3504.1	3001.2	2646.0	2462.4	2312.8	2250.9	2294.8
17.5°	5124.4	4813.1	4236.4	3611.9	3019.2	2556.2	2258.9	2145.2	2091.3	2097.3	2079.3
20°	4956.8	4645.5	3875.3	3220.7	2586.2	2217.0	2047.4	2005.5	2013.5	2027.4	2021.4
22.5°	4837.1	4442.0	3613.8	2821.6	2235.0	2029.4	1959.6	1929.6	1955.6	1967.6	1957.6
25°	4745.3	4268.4	3296.6	2468.4	2031.4	1923.7	1891.7	1889.7	1929.6	1945.6	1935.6
27.5°	4661.5	4106.7	2981.3	2199.0	1895.7	1841.8	1831.9	1855.8	1881.8	1897.7	1911.7
30°	4611.6	3983.0	2685.9	1973.5	1827.9	1801.9	1784.0	1805.9	1819.9	1835.9	1827.9
32.5°	4659.5	3895.2	2400.6	1845.8	1772.0	1746.1	1770.0	1756.0	1780.0	1794.0	1772.0
35°	4809.2	3817.4	2197.0	1778.0	1708.1	1718.1	1722.1	1716.1	1726.1	1714.1	1740.1
37.5°	4956.8	3789.5	2009.5	1720.1	1678.2	1678.2	1674.2	1662.3	1682.2	1678.2	1690.2
40°	5144.4	3807.4	1849.8	1658.3	1650.3	1646.3	1630.3	1628.3	1620.3	1622.3	1626.3
42.5°	5308.0	3847.3	1758.0	1618.3	1624.3	1632.3	1602.4	1578.4	1588.4	1568.5	1568.5
45°	5481.6	3883.2	1676.2	1590.4	1584.4	1582.4	1558.5	1544.5	1536.5	1538.5	1556.5
47.5°	5755.0	3935.1	1614.4	1552.5	1556.5	1526.6	1520.6	1502.6	1510.6	1522.6	1524.6
50°	5948.6	4044.9	1566.5	1508.6	1522.6	1502.6	1466.7	1458.7	1458.7	1478.7	1474.7
52.5°	6084.3	4198.5	1520.6	1460.7	1466.7	1450.7	1438.8	1420.8	1408.8	1436.8	1450.7
55°	6499.3	4454.0	1508.6	1420.8	1418.8	1402.8	1380.9	1362.9	1356.9	1360.9	1388.9
57.5°	6459.4	4374.1	1470.7	1351.0	1347.0	1325.0	1303.1	1297.1	1295.1	1299.1	1307.1
60°	5244.2	3230.7	1313.0	1271.1	1265.1	1261.2	1239.2	1215.3	1203.3	1215.3	1205.3
62.5°	3470.2	2163.1	1157.4	1175.3	1179.3	1169.4	1133.4	1109.5	1113.5	1127.5	1105.5
65°	1704.2	1271.1	1049.6	1097.5	1101.5	1073.6	1039.7	1011.7	997.7	1009.7	999.7
67.5°	973.8	971.8	961.8	1011.7	1009.7	981.8	927.9	904.0	880.0	884.0	878.0
70°	826.1	842.1	862.1	892.0	890.0	858.1	794.2	776.2	742.3	738.3	728.4
72.5°	650.5	678.5	722.4	744.3	726.4	686.5	644.5	614.6	584.7	566.7	572.7
75°	482.9	522.8	546.8	560.7	532.8	510.8	476.9	441.0	405.1	389.1	383.1
77.5°	351.2	363.2	385.1	395.1	377.1	355.2	335.2	299.3	265.4	243.5	237.5
80°	245.4	253.4	269.4	269.4	269.4	259.4	233.5	197.6	175.6	155.6	151.7
82.5°	171.6	179.6	195.6	187.6	185.6	173.6	157.6	129.7	105.8	91.8	87.8
85°	59.9	65.9	79.8	95.8	101.8	99.8	89.8	71.8	55.9	45.9	41.9
87.5°	14.0	14.0	16.0	14.0	14.0	16.0	14.0	14.0	14.0	10.0	8.0
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)