

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: P529274

Luminaire Tested: **GALN-SA4B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529274
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-SA4B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 15132 lumens
Efficiency: N/A
Efficacy: 92.3 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): 164
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

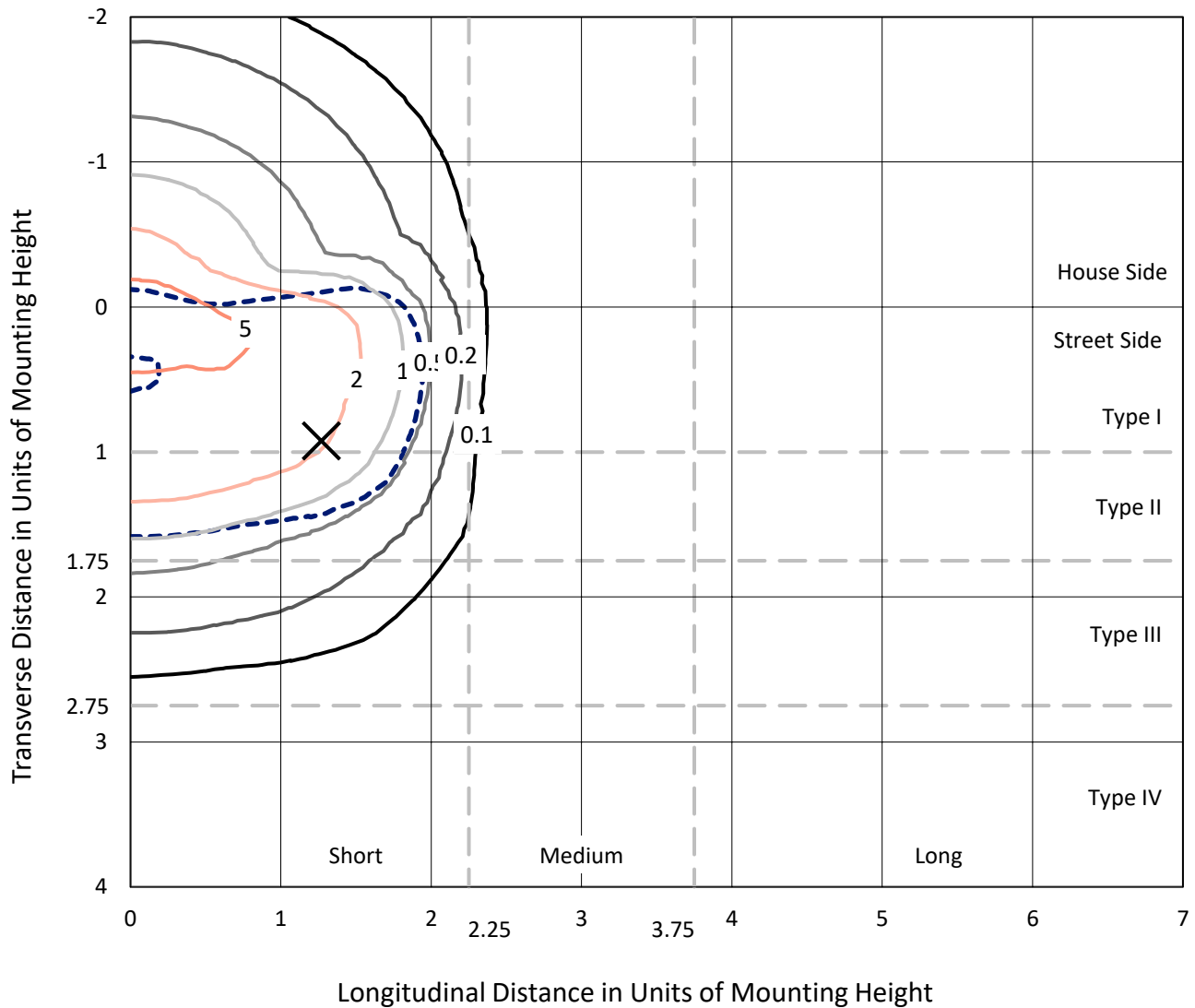


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

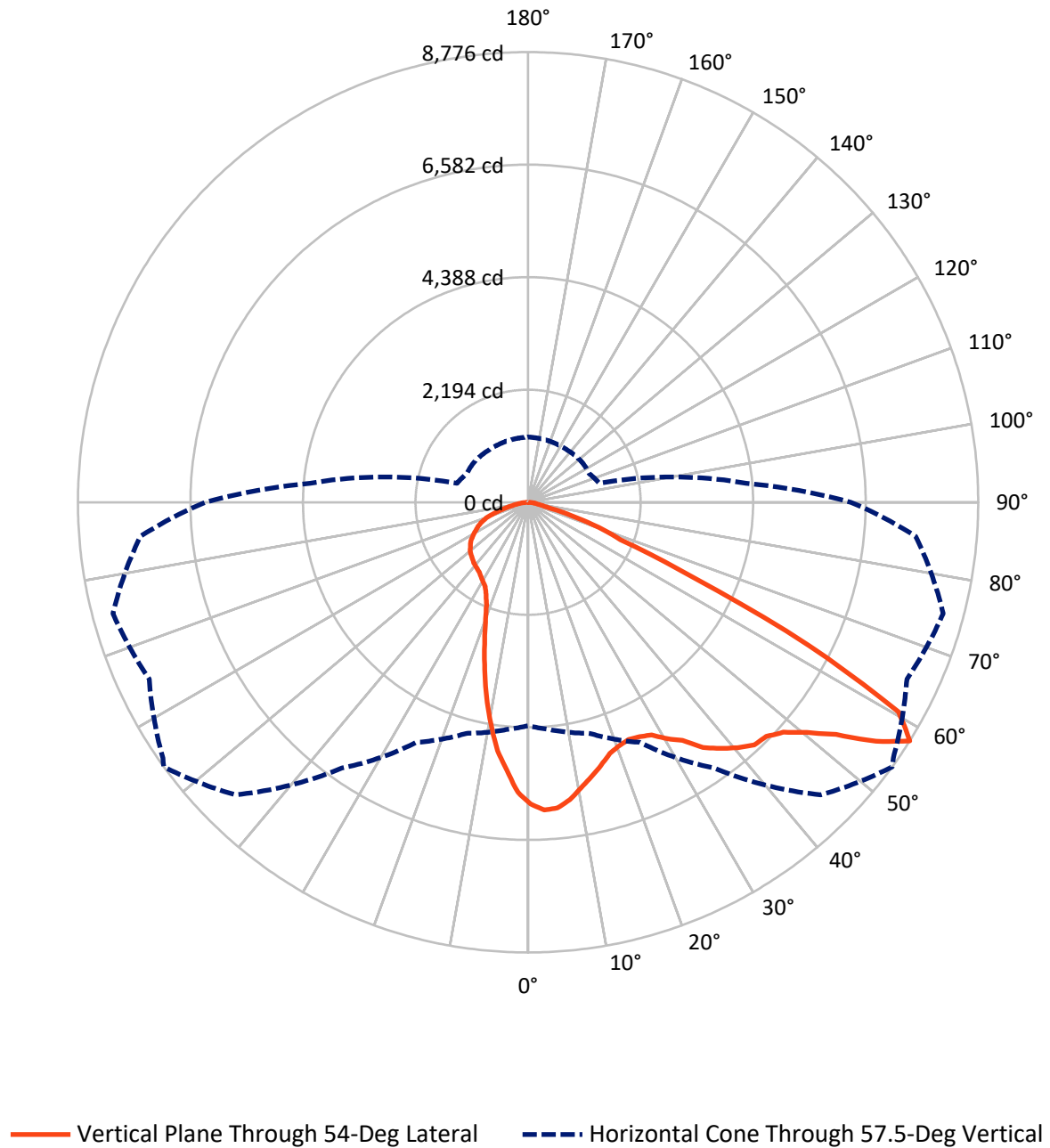


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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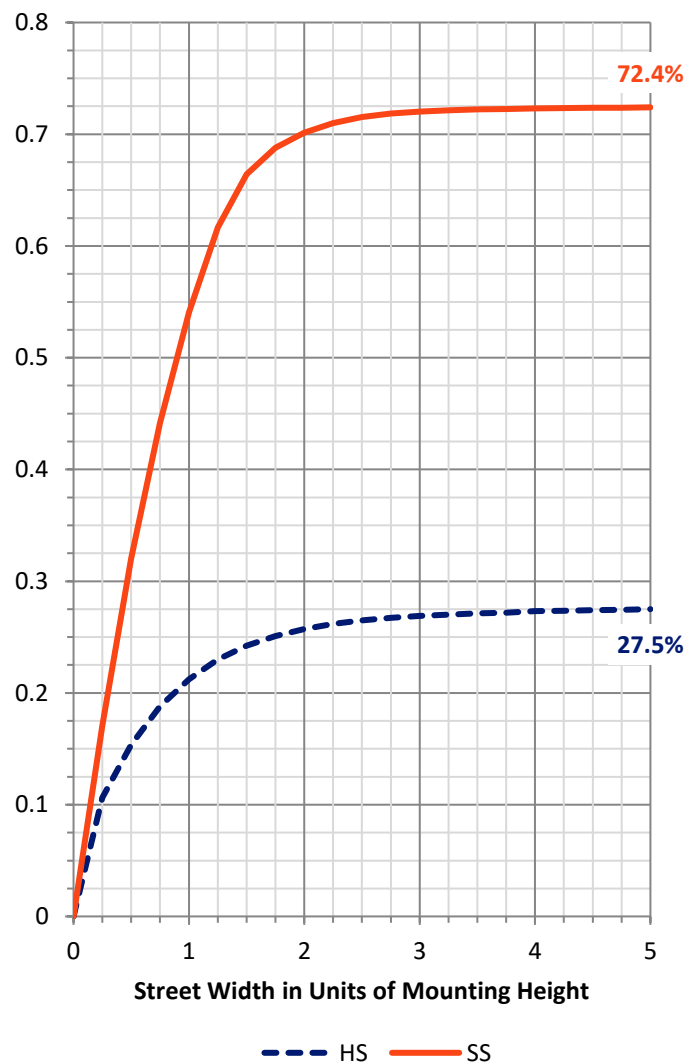
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4186.3	0.0	4186.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10945.6	0.0	10945.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	15132.0	0.0	15132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	3.4
10°-20°	1174.4	7.8
20°-30°	1650.1	10.9
30°-40°	2306.8	15.2
40°-50°	3123.0	20.6
50°-60°	3804.0	25.1
60°-70°	1981.3	13.1
70°-80°	507.7	3.4
80°-90°	77.4	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°	15132.0	100.0
0°-180°	15132.0	100.0

Coefficient of Utilization



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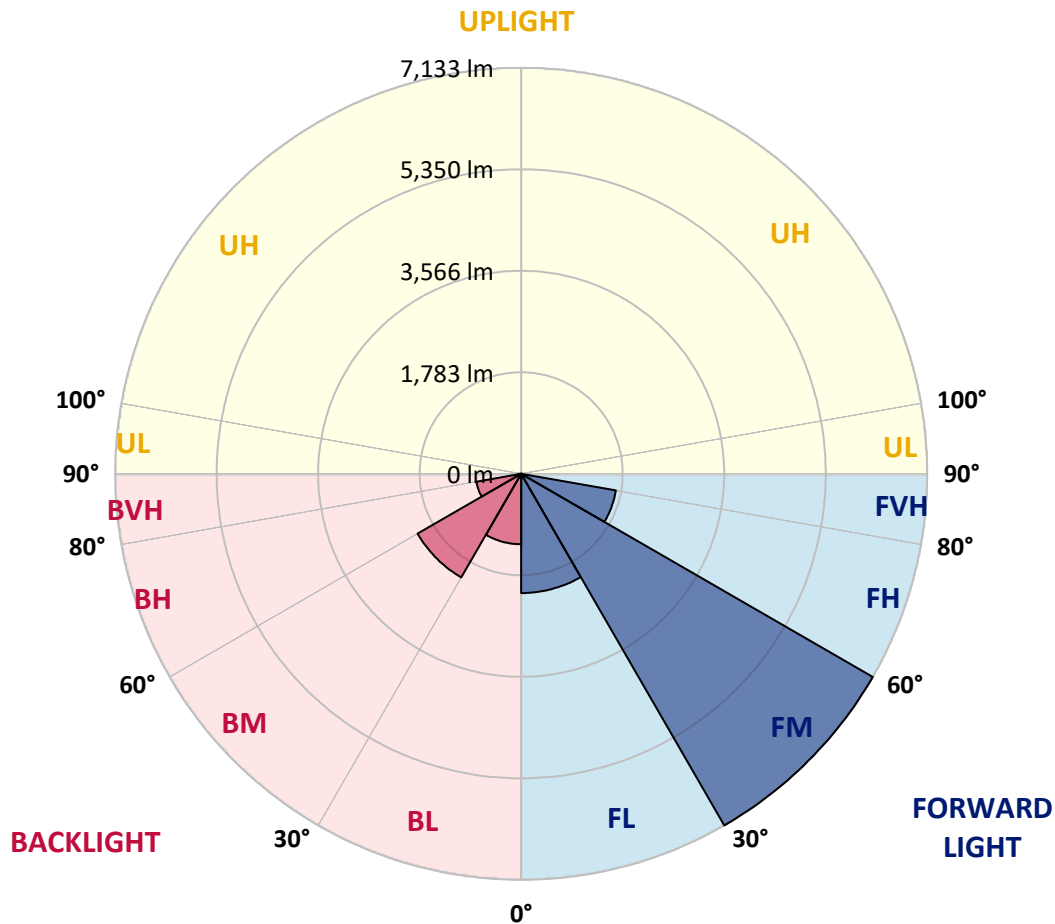
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2094.5	13.8			
FM	(30°-60°)	7132.8	47.1			
FH	(60°-80°)	1689.2	11.2			G1/1800
FVH	(80°-90°)	29.3	0.2			G1/100
BL	(0°-30°)	1237.3	8.2	B3/2500		
BM	(30°-60°)	2101.1	13.9	B2/2500		
BH	(60°-80°)	799.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	48.2	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°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
2.5°	6048.9	6025.6	6029.5	6060.6	6021.7	6006.1	6006.1	5930.3	5936.1	5883.6	5870.0
5°	5908.9	5854.4	5891.4	5938.0	5945.8	5961.4	5986.7	5967.2	5912.8	5856.4	5764.9
7.5°	5543.2	5591.8	5605.4	5638.5	5708.5	5772.7	5852.5	5798.0	5796.1	5739.7	5685.2
10°	5222.3	5193.1	5267.0	5315.6	5432.3	5539.3	5661.9	5656.0	5685.2	5621.0	5527.6
12.5°	4903.3	4880.0	4915.0	5025.8	5189.2	5344.8	5490.7	5436.2	5591.8	5580.2	5379.8
15°	4564.9	4582.4	4633.0	4736.0	4950.0	5136.7	5321.5	5323.4	5461.5	5508.2	5239.8
17.5°	4327.6	4308.1	4372.3	4526.0	4716.6	4940.3	5150.3	5193.1	5405.1	5432.3	5197.0
20°	4150.6	4177.8	4261.5	4339.3	4559.0	4829.4	5066.7	5082.2	5393.4	5467.4	5128.9
22.5°	4107.8	4092.2	4119.5	4245.9	4426.8	4720.5	5022.0	5080.3	5391.5	5455.7	5000.6
25°	4063.1	4113.6	4111.7	4238.1	4370.4	4633.0	5058.9	5123.1	5494.6	5516.0	5018.1
27.5°	4164.2	4158.4	4212.8	4222.6	4385.9	4656.3	5136.7	5185.3	5665.7	5648.2	5031.7
30°	4265.4	4236.2	4269.2	4384.0	4459.9	4790.5	5350.7	5346.8	5887.5	5875.8	5074.5
32.5°	4389.8	4376.2	4397.6	4498.8	4627.1	4969.4	5531.5	5646.3	6113.1	6187.0	5222.3
35°	4413.2	4469.6	4520.1	4656.3	4839.1	5259.2	5871.9	5967.2	6373.7	6605.2	5504.3
37.5°	4561.0	4582.4	4701.0	4942.2	5109.5	5646.3	6087.8	6148.1	6611.0	6873.6	5801.9
40°	4718.5	4743.8	4922.8	5175.6	5405.1	5899.1	6290.1	6309.5	6686.9	7079.7	5996.4
42.5°	4932.5	4955.8	5132.8	5449.8	5757.2	6115.0	6469.0	6490.4	6681.0	7317.0	6305.6
45°	5154.2	5210.6	5418.7	5778.6	6054.7	6367.9	6509.9	6597.4	6735.5	7529.0	6556.5
47.5°	5465.4	5517.9	5689.1	6041.1	6364.0	6589.6	6698.5	6784.1	6865.8	7713.8	6718.0
50°	5796.1	5805.8	6013.9	6332.9	6570.2	6840.5	7050.6	7079.7	7037.0	7927.8	6992.2
52.5°	6039.2	6070.3	6231.7	6542.9	6896.9	7229.5	7517.4	7548.5	7464.9	8007.5	7085.6
55°	5636.6	5619.1	5881.6	6295.9	7116.7	7809.1	8227.3	8250.6	7776.1	8254.5	7390.9
57.5°	4356.8	4440.4	4664.1	5163.9	6323.1	8065.9	8775.8	8692.1	8149.5	8379.0	7585.4
60°	3166.4	3147.0	3296.7	3631.3	4765.2	6951.4	8297.3	8382.9	7844.1	7552.4	6255.1
62.5°	2579.1	2551.8	2563.5	2575.2	3075.0	4613.5	6142.3	6140.3	6041.1	5428.5	4218.7
65°	2061.7	2125.9	2131.7	2219.2	2283.4	2756.0	3559.3	3749.9	3265.6	2678.2	1943.0
67.5°	1554.0	1530.7	1608.5	1919.7	2040.3	1989.7	1943.0	1964.4	1396.5	1007.5	949.2
70°	916.1	906.4	999.7	1338.1	1680.5	1581.3	1464.6	1466.5	958.9	704.1	783.8
72.5°	501.8	499.9	519.3	678.8	955.0	991.9	879.1	906.4	571.8	569.9	612.7
75°	280.1	274.2	268.4	299.5	344.3	363.7	371.5	375.4	392.9	439.6	457.1
77.5°	103.1	99.2	99.2	114.8	145.9	182.8	231.5	235.3	278.1	319.0	336.5
80°	35.0	38.9	52.5	72.0	97.2	130.3	157.5	161.4	196.4	223.7	229.5
82.5°	21.4	23.3	35.0	50.6	70.0	91.4	116.7	118.6	145.9	163.4	171.2
85°	9.7	11.7	19.4	31.1	44.7	60.3	62.2	62.2	60.3	62.2	58.3
87.5°	0.0	0.0	3.9	3.9	3.9	5.8	7.8	5.8	9.7	11.7	11.7
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°	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6	5881.6
2.5°	5829.1	5807.7	5741.6	5683.2	5665.7	5587.9	5473.2	5486.8	5403.2	5442.1	5401.2
5°	5749.4	5677.4	5508.2	5436.2	5247.6	5162.0	5103.6	4957.8	4889.7	4876.1	4817.7
7.5°	5545.2	5500.4	5288.4	5093.9	4893.6	4722.4	4502.6	4352.9	4245.9	4216.7	4131.1
10°	5383.7	5284.5	4990.8	4695.2	4409.3	4111.7	3825.8	3602.1	3493.2	3366.8	3324.0
12.5°	5224.2	5074.5	4677.7	4298.4	3928.9	3553.5	3207.3	2935.0	2697.7	2641.3	2621.8
15°	5125.0	4864.4	4397.6	3940.5	3415.4	2925.3	2579.1	2400.1	2254.2	2193.9	2236.7
17.5°	4994.7	4691.3	4129.2	3520.4	2942.8	2491.5	2201.7	2090.9	2038.3	2044.2	2026.7
20°	4831.3	4527.9	3777.2	3139.2	2520.7	2160.9	1995.6	1954.7	1962.5	1976.1	1970.3
22.5°	4714.6	4329.5	3522.4	2750.2	2178.4	1978.0	1910.0	1880.8	1906.1	1917.8	1908.0
25°	4625.2	4160.3	3213.1	2405.9	1980.0	1875.0	1843.8	1841.9	1880.8	1896.4	1886.6
27.5°	4543.5	4002.8	2905.8	2143.4	1847.7	1795.2	1785.5	1808.8	1834.1	1849.7	1863.3
30°	4494.9	3882.2	2618.0	1923.6	1781.6	1756.3	1738.8	1760.2	1773.8	1789.4	1781.6
32.5°	4541.5	3796.6	2339.8	1799.1	1727.1	1701.9	1725.2	1711.6	1734.9	1748.5	1727.1
35°	4687.4	3720.8	2141.4	1733.0	1664.9	1674.6	1678.5	1672.7	1682.4	1670.7	1696.0
37.5°	4831.3	3693.5	1958.6	1676.6	1635.7	1635.7	1631.8	1620.2	1639.6	1635.7	1647.4
40°	5014.2	3711.0	1803.0	1616.3	1608.5	1604.6	1589.1	1587.1	1579.3	1581.3	1585.2
42.5°	5173.7	3749.9	1713.5	1577.4	1583.2	1591.0	1561.8	1538.5	1548.2	1528.8	1528.8
45°	5342.9	3784.9	1633.8	1550.2	1544.3	1542.4	1519.0	1505.4	1497.6	1499.6	1517.1
47.5°	5609.3	3835.5	1573.5	1513.2	1517.1	1487.9	1482.1	1464.6	1472.4	1484.0	1486.0
50°	5798.0	3942.5	1526.8	1470.4	1484.0	1464.6	1429.6	1421.8	1421.8	1441.2	1437.3
52.5°	5930.3	4092.2	1482.1	1423.7	1429.6	1414.0	1402.3	1384.8	1373.2	1400.4	1414.0
55°	6334.8	4341.2	1470.4	1384.8	1382.9	1367.3	1345.9	1328.4	1322.6	1326.5	1353.7
57.5°	6295.9	4263.4	1433.5	1316.8	1312.9	1291.5	1270.1	1264.2	1262.3	1266.2	1274.0
60°	5111.4	3148.9	1279.8	1239.0	1233.1	1229.2	1207.8	1184.5	1172.8	1184.5	1174.8
62.5°	3382.3	2108.4	1128.1	1145.6	1149.5	1139.8	1104.8	1081.4	1085.3	1098.9	1077.5
65°	1661.0	1239.0	1023.1	1069.7	1073.6	1046.4	1013.3	986.1	972.5	984.2	974.4
67.5°	949.2	947.2	937.5	986.1	984.2	956.9	904.4	881.1	857.7	861.6	855.8
70°	805.2	820.8	840.2	869.4	867.5	836.3	774.1	756.6	723.5	719.6	709.9
72.5°	634.1	661.3	704.1	725.5	708.0	669.1	628.2	599.1	569.9	552.4	558.2
75°	470.7	509.6	532.9	546.5	519.3	497.9	464.9	429.8	394.8	379.3	373.4
77.5°	342.3	354.0	375.4	385.1	367.6	346.2	326.8	291.7	258.7	237.3	231.5
80°	239.2	247.0	262.6	262.6	262.6	252.8	227.6	192.6	171.2	151.7	147.8
82.5°	167.3	175.0	190.6	182.8	180.9	169.2	153.7	126.4	103.1	89.5	85.6
85°	58.3	64.2	77.8	93.4	99.2	97.2	87.5	70.0	54.5	44.7	40.8
87.5°	13.6	13.6	15.6	13.6	13.6	15.6	13.6	13.6	13.6	9.7	7.8
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)