

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: P529501

Luminaire Tested: **GALN-SA4C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529501
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-SA4C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16487 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 213
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

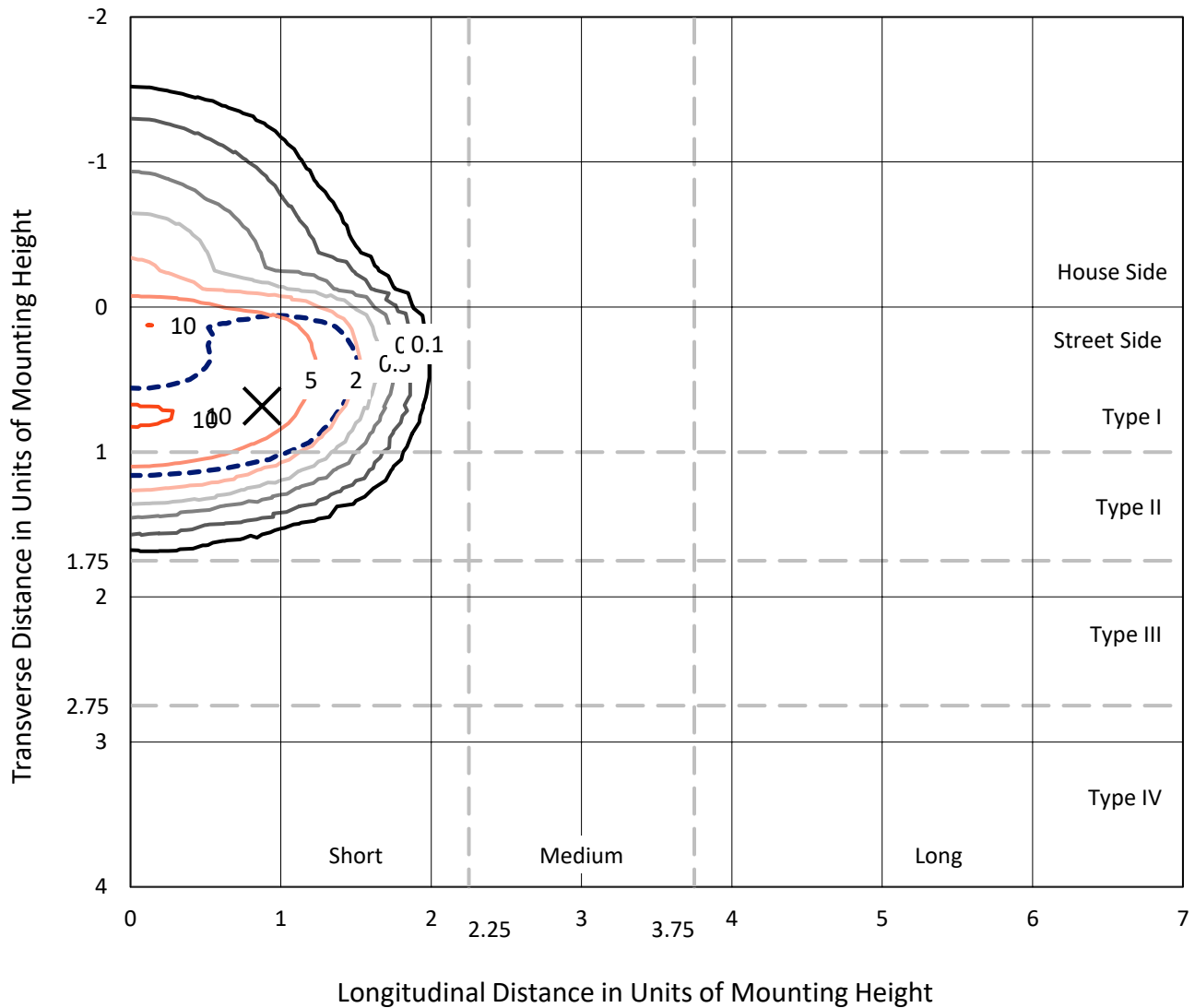


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

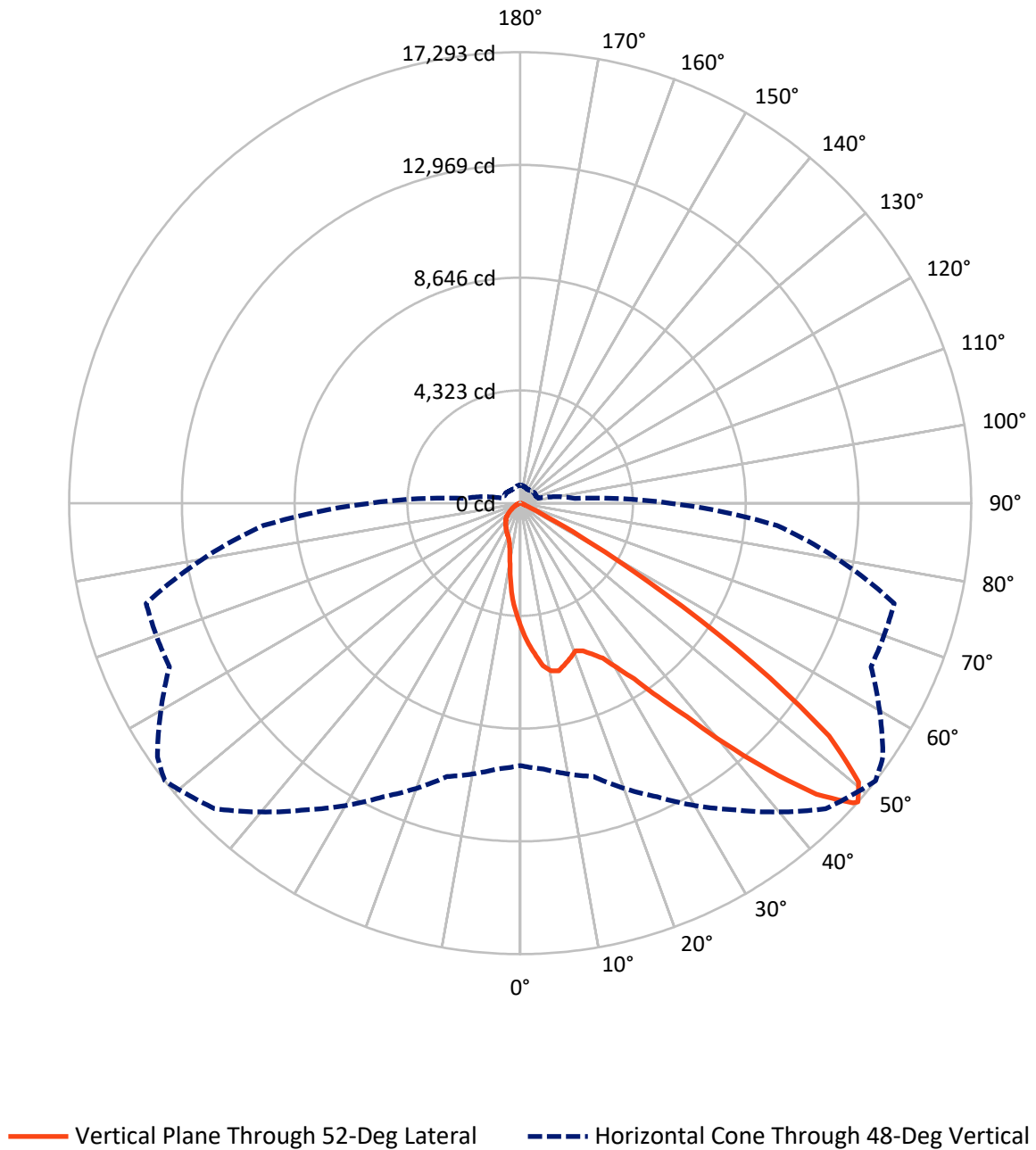


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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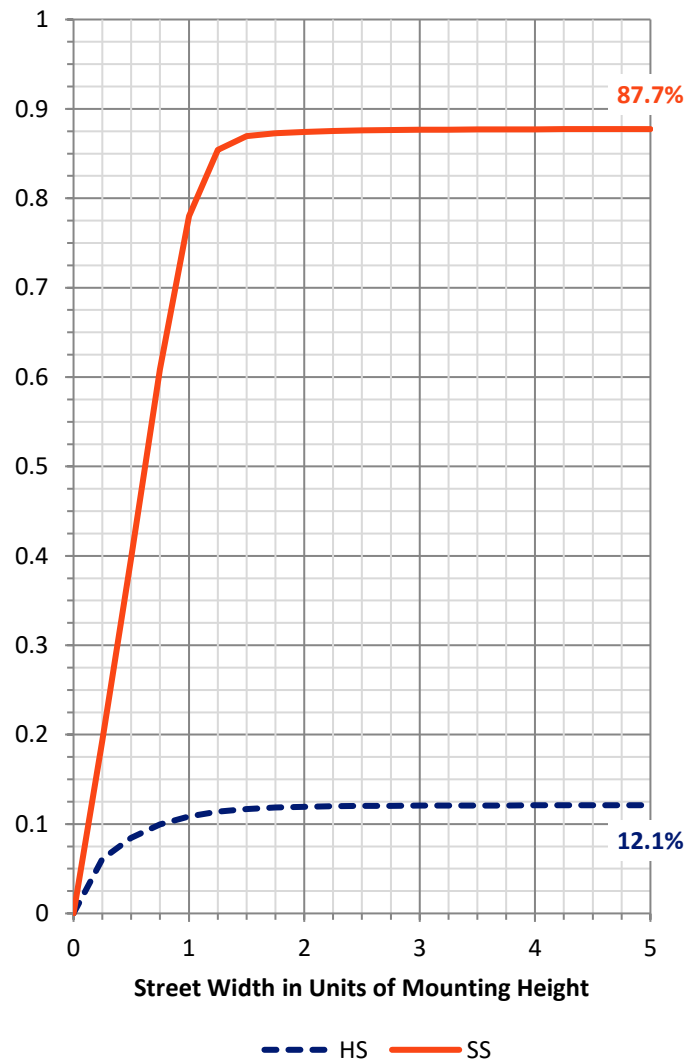
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.4	0.0	2007.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14479.6	0.0	14479.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	16487.0	0.0	16487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.8	2.6
10°-20°	1138.9	6.9
20°-30°	1944.5	11.8
30°-40°	3580.8	21.7
40°-50°	5561.0	33.7
50°-60°	3346.8	20.3
60°-70°	387.1	2.3
70°-80°	74.9	0.5
80°-90°	17.3	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°	16487.0	100.0
0°-180°	16487.0	100.0

Coefficient of Utilization



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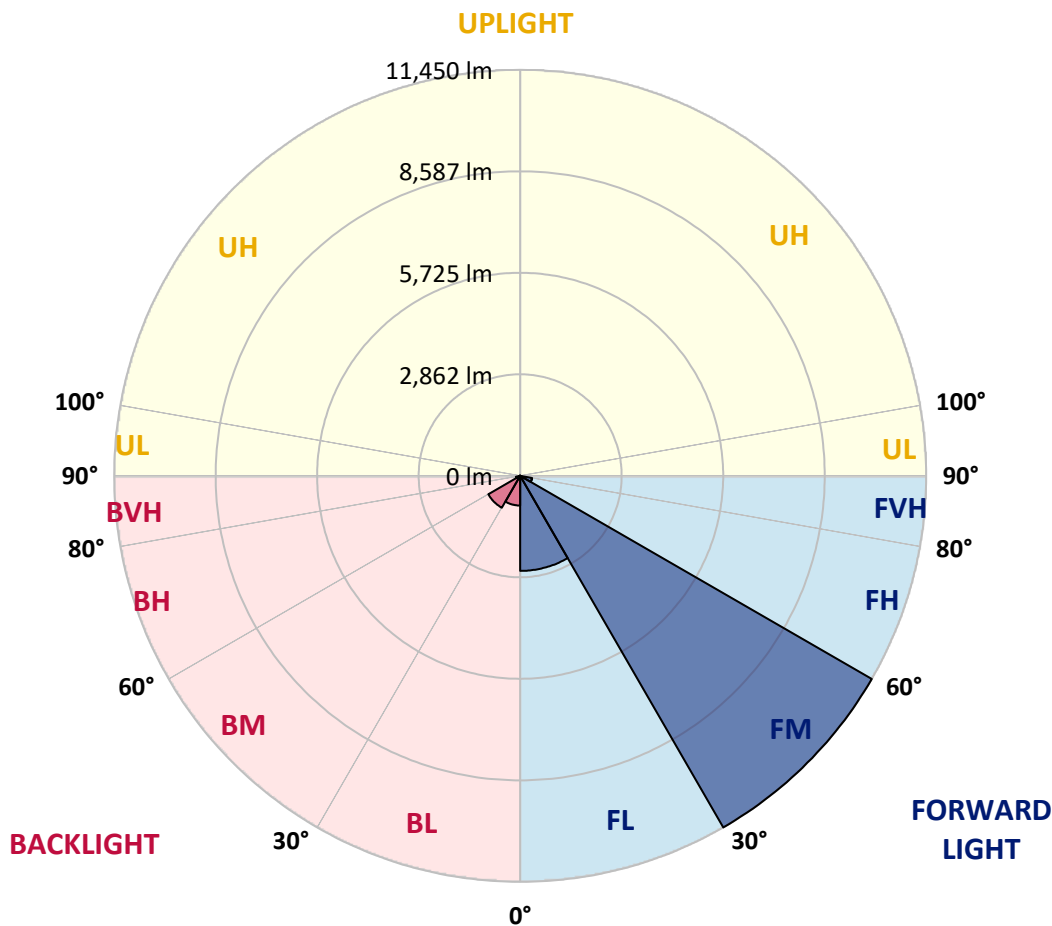
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.6	16.3			
FM	(30°-60°)	11449.9	69.4			
FH	(60°-80°)	340.9	2.1			G0/660
FVH	(80°-90°)	8.2	0.1			G0/10
BL	(0°-30°)	838.6	5.1	B2/1000		
BM	(30°-60°)	1038.6	6.3	B2/2500		
BH	(60°-80°)	121.2	0.7	B1/500		G1/500
BVH	(80°-90°)	9.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2
2.5°	5770.6	5638.4	5650.4	5563.9	5513.4	5431.7	5321.2	5299.5	5179.4	5015.9	4850.1
5°	6289.7	6258.5	6299.4	6174.4	6179.2	6044.6	5785.0	5789.8	5513.4	5246.7	4989.5
7.5°	6323.4	6251.3	6292.1	6402.7	6467.6	6443.6	6297.0	6169.6	5907.6	5515.8	5140.9
10°	5662.5	5799.4	5842.7	6025.4	6284.9	6558.9	6542.1	6549.3	6330.6	5818.7	5270.7
12.5°	5265.9	5174.6	5321.2	5431.7	5823.5	6354.6	6597.4	6650.3	6667.1	6111.9	5400.5
15°	5085.6	5085.6	5109.7	5140.9	5424.5	5914.8	6409.9	6563.7	6926.7	6496.4	5604.8
17.5°	5198.6	5193.8	5227.4	5162.5	5268.3	5645.6	6236.9	6412.3	7217.5	6873.8	5765.8
20°	5542.3	5559.1	5537.5	5350.0	5357.2	5640.8	6044.6	6321.0	7414.5	7200.6	5979.7
22.5°	6020.6	6030.2	5907.6	5703.3	5643.2	5782.6	6155.2	6366.7	7573.2	7592.4	6044.6
25°	6573.3	6534.9	6510.9	6222.5	6039.8	6160.0	6405.1	6527.7	7671.7	7928.9	6229.7
27.5°	7340.0	7263.1	7116.5	6859.4	6724.8	6554.1	6729.6	6931.5	7952.9	8399.9	6431.5
30°	8472.0	8404.8	8118.7	7787.1	7433.8	7265.5	7320.8	7431.4	8460.0	8945.5	6698.3
32.5°	10176.1	10034.3	9620.9	8988.8	8508.1	8044.2	8029.8	8147.6	8914.3	9700.2	7015.6
35°	12053.1	12009.9	11401.8	10750.5	9820.4	9104.1	9116.2	9178.7	9784.3	10690.4	7431.4
37.5°	13300.5	13538.5	13151.5	12452.1	11671.0	10647.1	10387.6	10409.2	10978.8	11863.3	8181.2
40°	14264.3	14062.4	14108.1	13944.6	13411.1	12714.1	12139.7	12026.7	12360.8	13161.1	8926.3
42.5°	13843.7	13853.3	14134.5	14521.5	14653.6	14603.2	14016.7	13802.8	13543.3	14223.4	9635.3
45°	12656.4	12904.0	13269.3	14293.1	15192.0	16035.6	15920.2	15564.5	14360.4	15064.6	10043.9
47.5°	10762.5	10752.9	11351.3	12682.8	14680.1	16655.7	17179.6	16929.7	14939.6	14970.9	9959.8
48°	10063.1	10236.2	10853.8	12420.9	14355.6	16564.4	17292.6	16977.7	14841.1	14845.9	9887.7
50°	7438.6	7407.3	8176.4	10099.2	12822.2	15564.5	16816.7	17061.9	14838.7	14213.8	9382.9
52.5°	3929.6	4064.2	4624.2	6349.8	9065.7	12738.1	14833.9	15216.0	14314.8	13180.3	8657.1
55°	1670.4	1509.3	1939.6	2867.3	5100.1	8510.5	10882.7	11733.5	12103.6	11663.8	7573.2
57.5°	596.0	651.3	749.9	1079.1	2143.8	4657.8	6489.2	7150.2	8385.5	8558.6	5160.1
60°	382.1	389.4	420.6	495.1	805.1	1795.4	3078.8	3605.1	4165.1	4299.7	2408.2
62.5°	295.6	298.0	312.4	324.5	382.1	697.0	1156.0	1369.9	1422.8	1223.3	632.1
65°	247.6	250.0	254.8	254.8	271.6	326.9	403.8	444.6	432.6	427.8	358.1
67.5°	189.9	194.7	204.3	204.3	213.9	199.5	223.5	237.9	269.2	326.9	305.2
70°	149.0	151.4	158.6	163.4	163.4	144.2	161.0	175.4	197.1	242.7	240.3
72.5°	115.4	120.2	125.0	125.0	117.8	98.5	115.4	127.4	141.8	168.2	163.4
75°	88.9	88.9	91.3	74.5	57.7	50.5	69.7	84.1	105.8	110.6	91.3
77.5°	24.0	26.4	24.0	21.6	24.0	36.1	45.7	52.9	67.3	67.3	60.1
80°	0.0	2.4	7.2	14.4	24.0	33.6	40.9	45.7	52.9	57.7	55.3
82.5°	0.0	2.4	7.2	14.4	21.6	26.4	36.1	38.5	43.3	50.5	50.5
85°	0.0	2.4	4.8	9.6	14.4	16.8	16.8	14.4	14.4	12.0	9.6
87.5°	0.0	0.0	2.4	4.8	4.8	7.2	7.2	7.2	7.2	7.2	7.2
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°	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2	4761.2
2.5°	4785.2	4710.7	4597.7	4419.9	4249.2	4138.7	4032.9	3915.2	3850.3	3845.5	3809.4
5°	4842.9	4674.6	4405.5	4100.2	3773.4	3492.2	3208.6	3023.5	2857.7	2766.3	2749.5
7.5°	4874.1	4655.4	4220.4	3708.5	3150.9	2691.8	2374.6	2141.4	2050.1	1982.8	1980.4
10°	4939.0	4621.8	3944.0	3189.3	2499.6	2035.7	1817.0	1711.2	1660.8	1641.5	1612.7
12.5°	4987.1	4559.3	3660.4	2655.8	1975.6	1687.2	1591.1	1567.0	1569.4	1579.0	1567.0
15°	5054.4	4504.0	3278.3	2179.9	1658.4	1519.0	1519.0	1523.8	1557.4	1562.2	1559.8
17.5°	5049.6	4395.9	2884.1	1795.4	1466.1	1446.9	1454.1	1499.7	1521.4	1528.6	1511.8
20°	5107.3	4294.9	2477.9	1533.4	1357.9	1386.8	1434.8	1446.9	1473.3	1478.1	1458.9
22.5°	5090.4	4042.5	2100.6	1326.7	1276.2	1331.5	1379.6	1394.0	1386.8	1372.4	1369.9
25°	5059.2	3826.2	1754.5	1189.7	1216.1	1276.2	1321.9	1295.4	1281.0	1283.4	1285.8
27.5°	5003.9	3552.3	1468.5	1093.6	1134.4	1223.3	1220.9	1211.3	1225.7	1213.7	1225.7
30°	4994.3	3278.3	1233.0	1007.0	1074.3	1139.2	1144.0	1160.9	1177.7	1156.0	1177.7
32.5°	5008.7	2977.8	1064.7	954.2	1038.3	1040.7	1093.6	1110.4	1098.4	1050.3	1055.1
35°	5119.3	2747.1	942.1	925.3	980.6	983.0	1033.5	1011.8	959.0	930.1	946.9
37.5°	5352.4	2554.8	884.5	898.9	903.7	934.9	937.3	894.1	898.9	896.5	906.1
40°	5650.4	2408.2	843.6	874.8	870.0	891.7	805.1	829.2	850.8	858.0	862.8
42.5°	5854.7	2302.5	817.2	836.4	826.8	788.3	740.3	764.3	781.1	807.5	812.4
45°	5946.1	2218.4	785.9	769.1	769.1	699.4	680.2	685.0	723.4	752.3	747.5
47.5°	5797.0	2136.6	730.6	680.2	697.0	639.3	617.7	617.7	658.5	694.6	687.4
48°	5739.4	2103.0	733.0	660.9	673.0	629.7	608.1	603.3	648.9	682.6	682.6
50°	5453.4	1978.0	670.6	608.1	584.0	579.2	564.8	569.6	598.5	629.7	629.7
52.5°	4895.8	1708.8	567.2	521.5	478.3	507.1	514.3	504.7	519.1	548.0	545.6
55°	4085.8	1312.3	454.2	432.6	399.0	430.2	444.6	432.6	418.2	439.8	439.8
57.5°	2617.3	706.6	362.9	367.7	334.1	365.3	377.3	348.5	322.1	338.9	336.5
60°	1180.1	423.0	298.0	290.8	269.2	305.2	324.5	290.8	254.8	266.8	278.8
62.5°	442.2	300.4	225.9	221.1	216.3	250.0	259.6	233.1	197.1	204.3	206.7
65°	324.5	264.4	180.3	163.4	173.0	197.1	192.3	165.8	141.8	141.8	146.6
67.5°	276.4	230.7	146.6	127.4	127.4	129.8	120.2	105.8	98.5	103.3	108.2
70°	216.3	182.7	115.4	98.5	88.9	79.3	69.7	67.3	60.1	67.3	64.9
72.5°	139.4	122.6	88.9	74.5	67.3	55.3	45.7	43.3	36.1	33.6	33.6
75°	74.5	74.5	69.7	60.1	52.9	43.3	36.1	28.8	19.2	14.4	14.4
77.5°	52.9	57.7	62.5	57.7	48.1	36.1	28.8	19.2	9.6	4.8	4.8
80°	50.5	57.7	62.5	55.3	48.1	36.1	26.4	14.4	7.2	2.4	2.4
82.5°	45.7	52.9	57.7	50.5	43.3	31.2	24.0	14.4	7.2	2.4	2.4
85°	9.6	12.0	14.4	14.4	16.8	21.6	16.8	12.0	4.8	2.4	2.4
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	4.8	4.8	2.4	2.4	2.4
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)