

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: P957361

Luminaire Tested: **GALN-SB9D-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65702 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

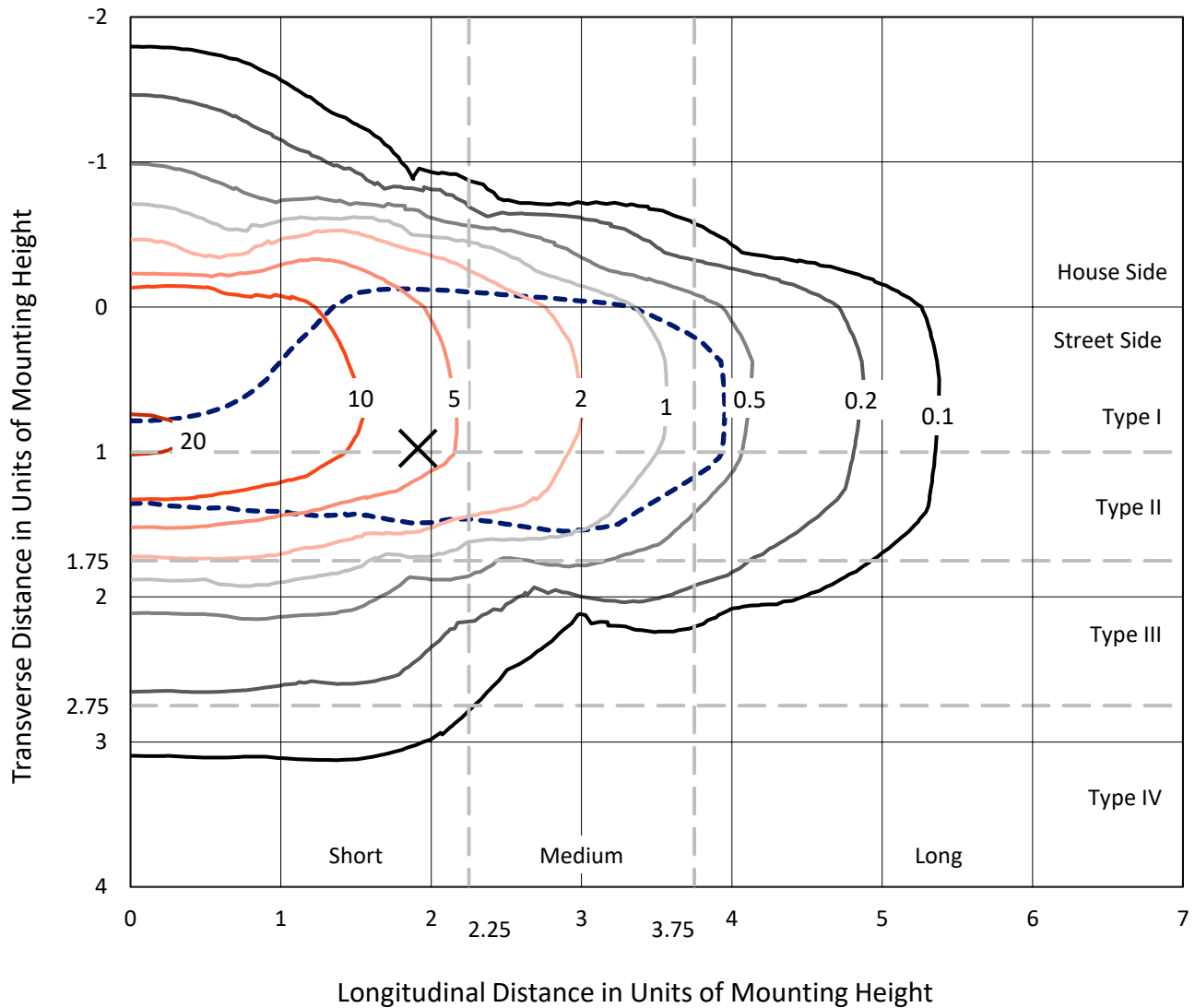


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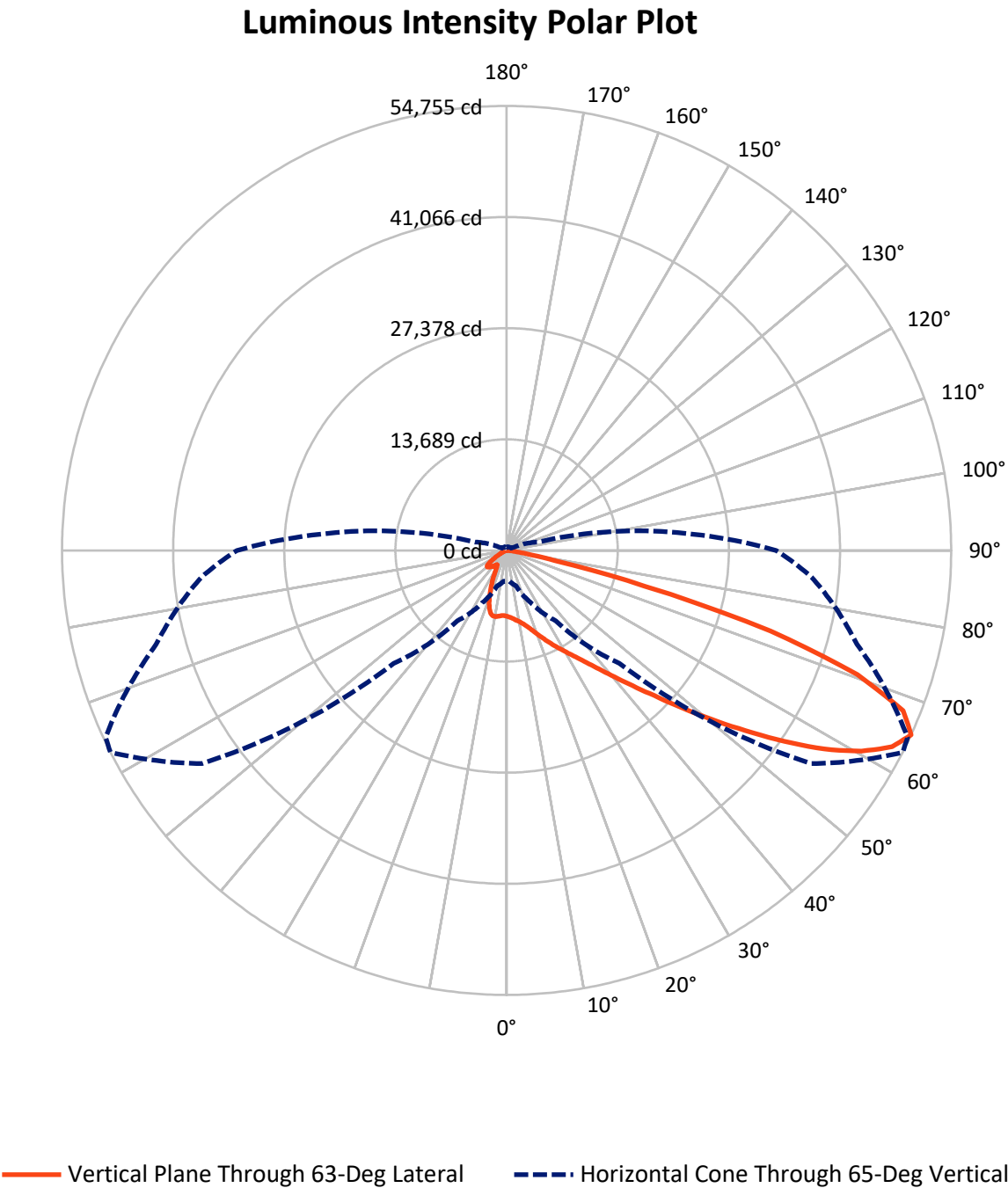
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
Type II - Short - N/A

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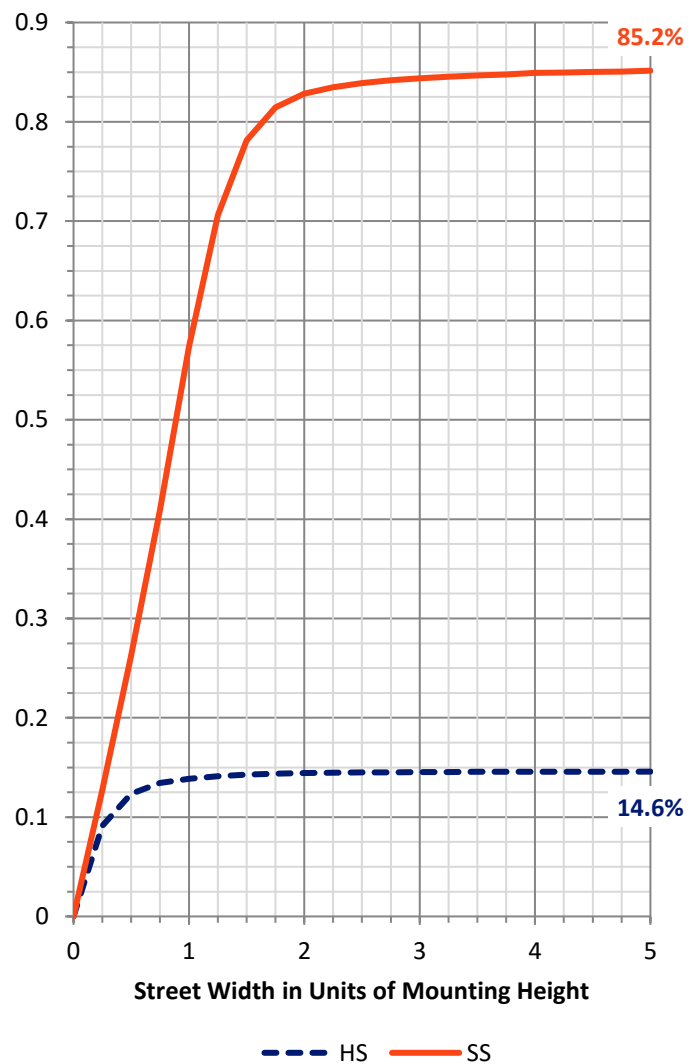
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9657.7	0.0	9657.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	56044.3	0.0	56044.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	65702.0	0.0	65702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.0	1.2
10°-20°	2119.8	3.2
20°-30°	3691.2	5.6
30°-40°	6653.0	10.1
40°-50°	13195.0	20.1
50°-60°	17973.7	27.4
60°-70°	14346.5	21.8
70°-80°	6492.1	9.9
80°-90°	466.6	0.7
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°	65702.0	100.0
0°-180°	65702.0	100.0

Coefficient of Utilization



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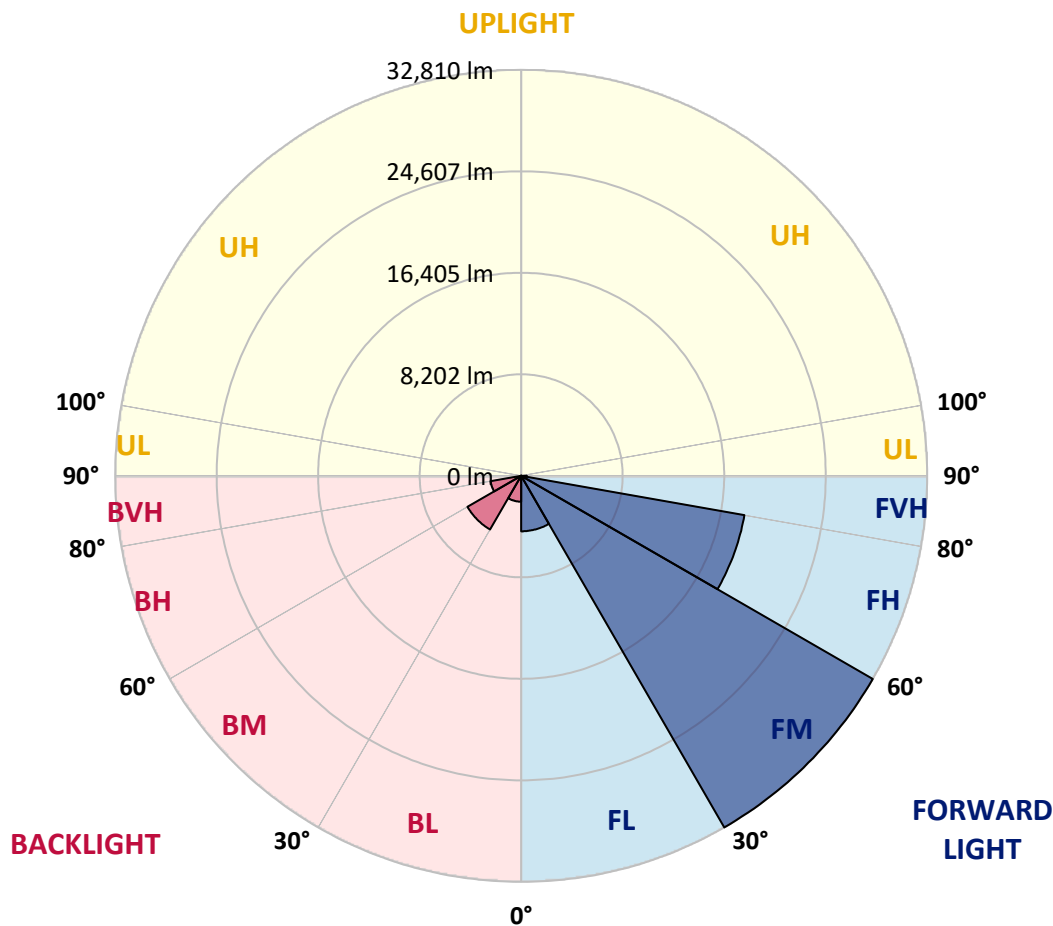
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4485.0	6.8			
FM	(30°-60°)	32809.9	49.9			
FH	(60°-80°)	18317.4	27.9			G5
FVH	(80°-90°)	432.0	0.7			G3/500
BL	(0°-30°)	2090.1	3.2	B3/2500		
BM	(30°-60°)	5011.7	7.6	B4/8500		
BH	(60°-80°)	2521.2	3.8	B4/5000		G4/5000
BVH	(80°-90°)	34.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9
2.5°	8298.7	8276.1	8307.7	8294.2	8285.1	8267.1	8258.0	8249.0	8230.9	8217.3	8163.1
5°	8321.3	8307.7	8339.4	8366.5	8393.6	8420.7	8434.3	8452.4	8434.3	8398.1	8343.9
7.5°	8131.5	8122.4	8190.2	8271.6	8393.6	8497.6	8610.6	8673.9	8678.4	8664.8	8606.1
10°	8117.9	8095.3	8163.1	8262.5	8420.7	8606.1	8804.9	8940.5	8958.6	9017.4	8954.1
12.5°	8330.3	8307.7	8402.7	8511.1	8673.9	8868.2	9112.3	9302.1	9329.3	9410.6	9365.4
15°	8687.4	8655.8	8764.3	8904.4	9112.3	9333.8	9591.4	9763.2	9785.8	9885.2	9803.9
17.5°	9103.3	9071.6	9198.2	9347.3	9573.3	9876.2	10174.5	10364.3	10391.5	10454.7	10305.6
20°	9636.6	9595.9	9695.4	9831.0	10070.5	10432.1	10789.2	11060.4	11055.9	11055.9	10811.8
22.5°	10255.9	10192.6	10278.5	10386.9	10612.9	11051.4	11526.0	11846.9	11846.9	11720.3	11318.1
25°	10920.3	10857.0	10951.9	11051.4	11250.3	11747.5	12303.4	12701.2	12719.3	12502.3	11860.5
27.5°	11752.0	11670.6	11742.9	11860.5	11978.0	12484.2	13144.1	13605.2	13614.2	13279.7	12375.7
30°	13352.1	13121.5	12895.5	12769.0	12823.2	13324.9	14030.1	14540.8	14586.0	14125.0	12936.2
32.5°	16281.0	16235.8	15440.3	14400.7	13858.3	14228.9	15019.9	15634.7	15661.8	15069.7	13663.9
35°	20832.6	20778.4	19499.3	17519.5	15752.2	15440.3	16222.3	16950.0	16931.9	16262.9	14608.6
37.5°	26265.7	26216.0	24530.0	21881.3	19020.1	17270.9	17772.6	18536.5	18649.5	17772.6	15829.0
40°	30907.7	30722.4	29655.7	27101.9	23359.3	20308.3	19978.4	20484.6	20602.1	19562.5	17379.4
42.5°	34424.3	34266.1	33723.7	32128.1	28611.6	24801.2	22577.4	22771.7	22902.8	21655.3	19160.3
45°	36245.8	36209.7	36426.6	36277.5	33963.2	30315.6	26292.8	25483.7	25533.4	23974.0	21180.7
47.5°	36503.5	36485.4	37475.3	38876.5	38564.6	36535.1	31061.4	28864.7	28688.4	26591.1	23377.4
50°	34984.7	34948.6	36847.0	39473.1	41638.2	41760.2	36476.3	32675.0	32286.3	29298.6	25669.0
52.5°	30134.8	30125.8	33244.6	37615.4	42718.5	46334.5	41828.0	36860.5	36209.7	32164.3	28091.8
55°	23187.6	23354.8	26930.1	32096.5	40747.7	48535.7	46632.8	41507.1	40508.2	35048.0	30324.6
57.5°	16425.7	16669.7	20204.4	24805.7	34636.7	47233.9	49882.6	46162.7	45086.9	37922.7	32589.2
60°	8823.0	9040.0	12579.1	18070.9	25768.5	42379.5	51595.7	50203.6	49186.6	40652.8	34632.2
62.5°	5256.8	5329.1	6793.6	11666.1	17429.1	32376.7	50868.0	53281.7	52445.5	42944.5	36408.5
65°	3774.2	3787.8	4524.5	7123.5	10581.3	19671.0	45764.9	54755.2	54497.6	44671.1	37723.9
67.5°	3177.6	3168.5	3475.9	4732.4	7209.4	9853.6	35075.1	52671.5	53765.3	45764.9	38469.7
70°	2725.6	2739.1	3100.7	3466.8	5419.5	5577.7	17438.1	45859.9	48192.2	46054.2	38424.5
72.5°	2029.5	2074.7	2409.2	3159.5	4090.6	3837.5	6020.6	34003.9	38221.1	43391.9	36431.1
75°	1432.8	1455.4	1695.0	2657.8	3051.0	2793.4	3073.6	17578.3	22984.2	33267.2	29818.4
77.5°	1102.9	1143.6	1283.7	1857.7	3005.8	1961.7	1880.3	6083.9	9347.3	20095.9	20443.9
80°	596.6	669.0	926.6	1342.4	2110.8	1387.6	931.1	2422.7	3168.5	9397.1	7882.9
82.5°	307.4	343.5	646.4	967.3	1202.3	1211.4	461.0	1008.0	1306.3	2901.8	1080.3
85°	122.0	149.2	433.9	533.4	619.2	596.6	207.9	406.8	470.1	804.6	330.0
87.5°	27.1	45.2	158.2	122.0	117.5	126.6	49.7	94.9	90.4	94.9	58.8
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°	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9	8108.9
2.5°	8158.6	8140.5	8090.8	8036.5	7973.3	7937.1	7914.5	7910.0	7878.3	7855.7	7878.3
5°	8294.2	8276.1	8181.2	8068.2	7946.1	7851.2	7760.8	7679.5	7561.9	7539.3	7530.3
7.5°	8565.4	8515.7	8362.0	8208.3	7977.8	7702.1	7367.6	6983.4	6639.9	6535.9	6486.2
10°	8899.9	8832.1	8637.7	8366.5	7855.7	7105.4	6296.4	5546.0	4949.4	4782.2	4718.9
12.5°	9279.5	9220.8	8963.1	8461.4	7345.0	5984.5	4746.0	3814.9	3236.3	3091.7	3051.0
15°	9731.5	9645.7	9288.6	8316.8	6432.0	4547.1	3258.9	2707.5	2499.6	2472.4	2445.3
17.5°	10210.7	10070.5	9577.9	7797.0	5202.5	3231.8	2517.6	2359.4	2269.0	2241.9	2228.4
20°	10649.1	10468.3	9749.6	7010.5	3887.2	2517.6	2255.5	2151.5	2070.2	2038.5	2020.4
22.5°	11087.5	10829.9	9749.6	5939.3	2915.4	2232.9	2070.2	1975.2	1880.3	1839.6	1817.0
25°	11544.1	11200.5	9577.9	4746.0	2345.9	2047.6	1893.9	1789.9	1708.6	1658.8	1640.8
27.5°	11987.0	11512.4	9184.6	3616.0	2088.2	1884.8	1731.2	1631.7	1554.9	1518.7	1518.7
30°	12407.4	11819.8	8633.2	2743.6	1921.0	1726.6	1582.0	1496.1	1419.3	1383.1	1387.6
32.5°	12976.9	12208.5	8045.6	2251.0	1776.4	1577.5	1446.4	1365.0	1297.2	1270.1	1270.1
35°	13767.9	12782.5	7539.3	2210.3	1654.3	1455.4	1324.4	1247.5	1179.7	1157.1	1157.1
37.5°	14888.9	13709.1	7272.7	2481.5	1554.9	1347.0	1224.9	1143.6	1080.3	1062.2	1057.7
40°	16272.0	14965.7	7417.3	2752.7	1487.1	1252.0	1134.5	1053.2	998.9	976.3	971.8
42.5°	17912.7	16516.1	8217.3	2960.6	1441.9	1170.7	1048.6	958.2	922.1	913.0	913.0
45°	19797.6	18220.1	9442.3	3182.1	1369.6	1093.8	962.8	895.0	867.8	863.3	858.8
47.5°	21940.0	20091.4	10861.5	3457.8	1297.2	1021.5	895.0	849.8	827.2	818.1	818.1
50°	24064.4	21976.2	12321.5	3611.5	1238.5	953.7	840.7	804.6	786.5	782.0	782.0
52.5°	26288.3	23915.3	13501.2	3466.8	1188.8	899.5	795.5	768.4	750.3	745.8	745.8
55°	28408.2	25483.7	13704.6	2942.5	1089.3	845.2	745.8	732.2	709.6	709.6	705.1
57.5°	30234.2	26270.2	12267.3	2160.6	989.9	763.9	696.1	682.5	664.4	659.9	655.4
60°	31911.2	26044.2	9469.4	1455.4	881.4	682.5	632.8	623.8	605.7	583.1	578.6
62.5°	32855.8	25049.8	6477.2	949.2	772.9	596.6	560.5	556.0	515.3	470.1	461.0
65°	33212.9	23006.8	4040.9	691.6	646.4	510.8	483.6	474.6	415.8	366.1	361.6
67.5°	32901.0	19643.9	2038.5	546.9	510.8	424.9	397.8	397.8	357.1	311.9	307.4
70°	31653.5	14726.1	858.8	438.4	393.2	325.4	325.4	343.5	302.8	253.1	248.6
72.5°	28946.0	9907.8	456.5	334.5	293.8	230.5	266.7	280.2	239.6	189.8	189.8
75°	23011.3	6043.2	316.4	248.6	185.3	162.7	203.4	212.4	162.7	126.6	122.0
77.5°	15738.6	3471.4	212.4	158.2	117.5	94.9	140.1	131.1	85.9	58.8	63.3
80°	6911.1	1446.4	122.0	72.3	45.2	36.2	49.7	36.2	27.1	18.1	18.1
82.5°	809.1	339.0	45.2	27.1	18.1	9.0	4.5	0.0	0.0	0.0	0.0
85°	167.2	40.7	22.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.6	9.0	4.5	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)