

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: P651554

Luminaire Tested: **GALN-SA8D-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43042.4 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

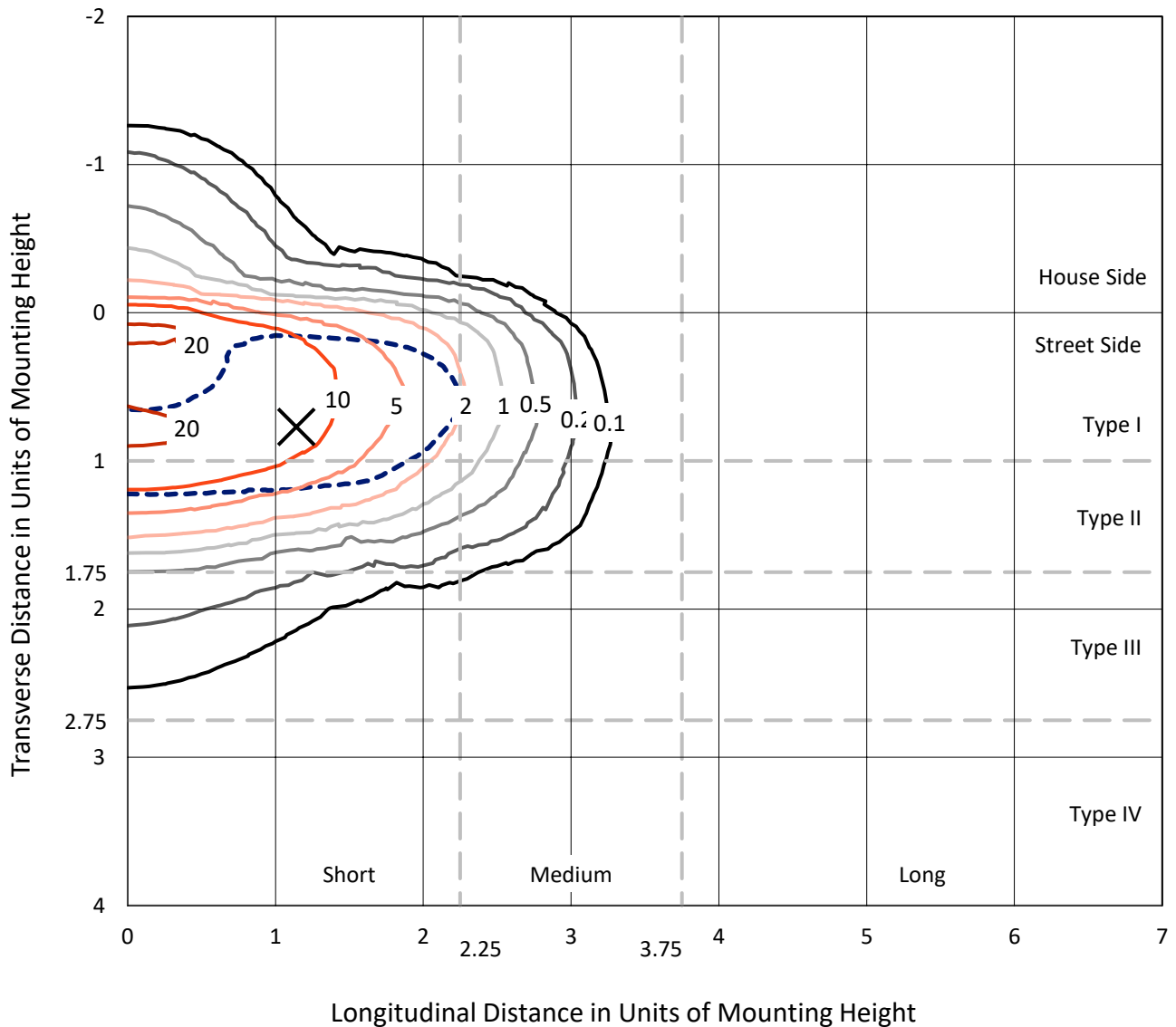
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

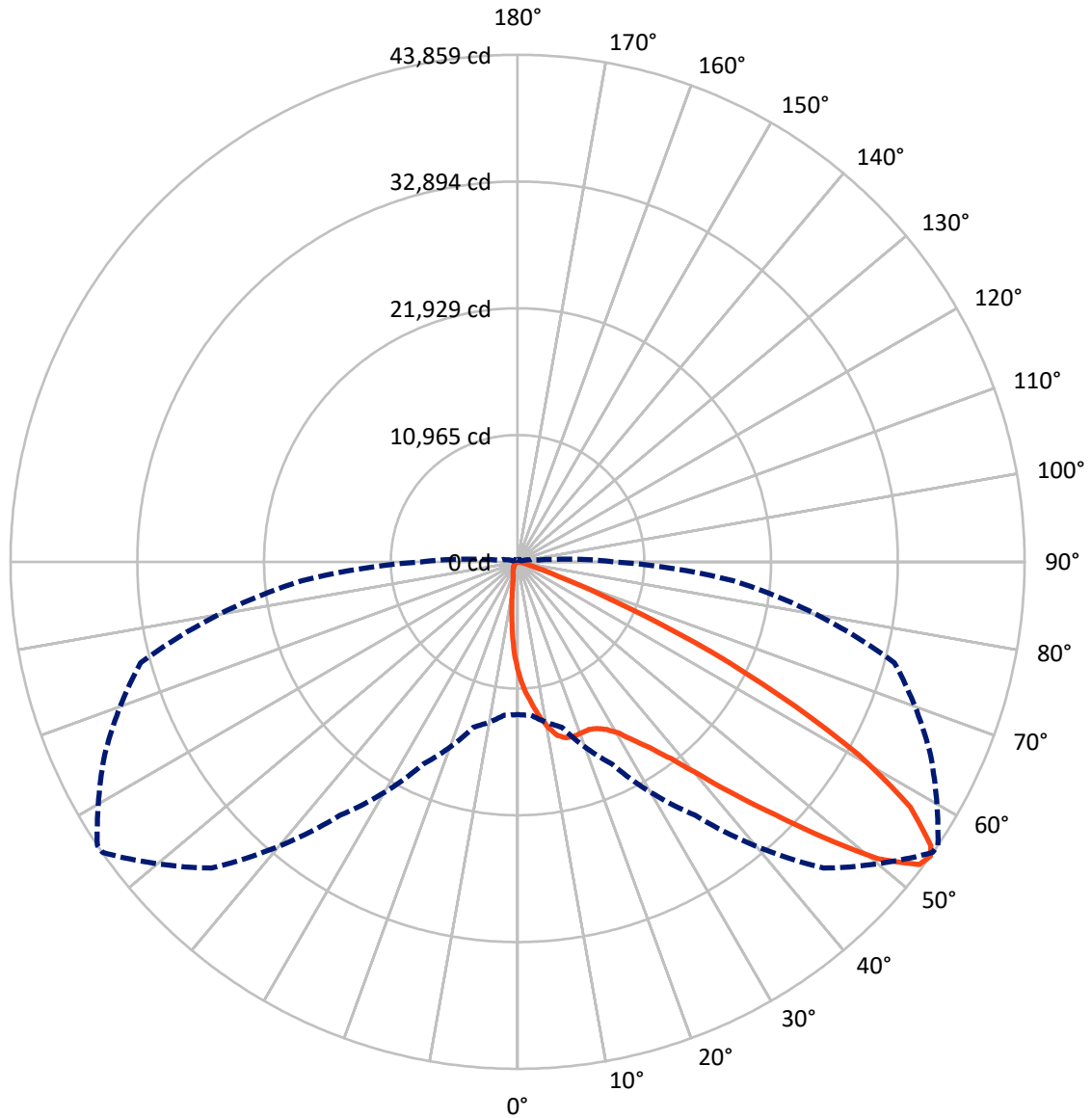
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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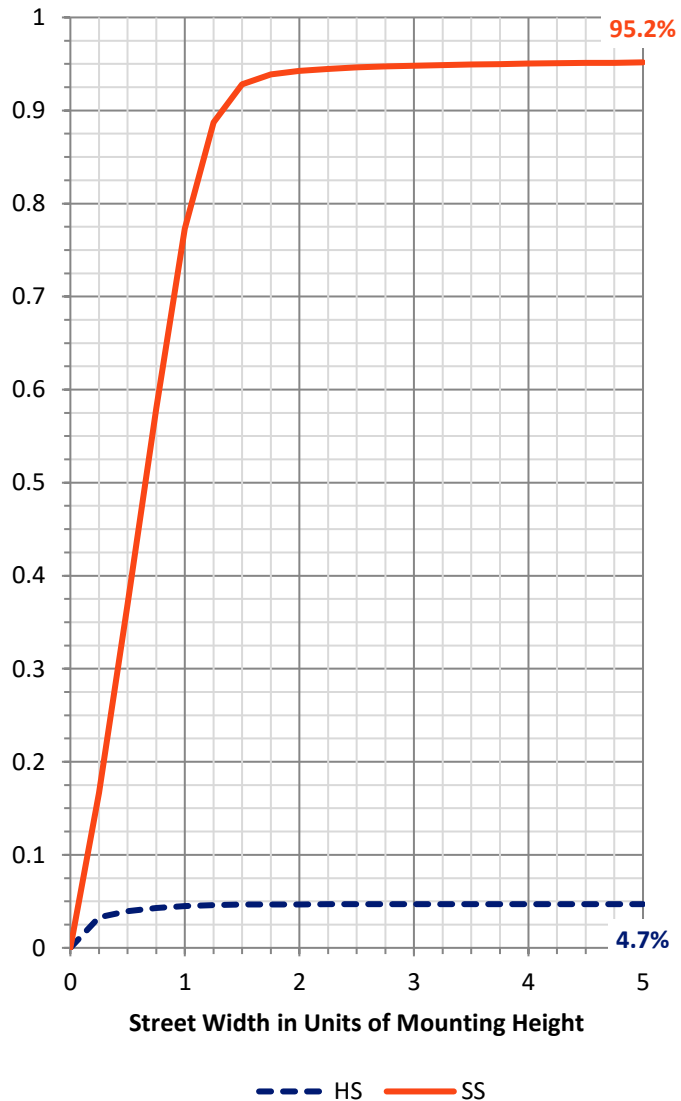
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2035.4	0.0	2035.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	41007.0	0.0	41007.0
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	43042.4	0.0	43042.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	845.0	2.0
10°-20°	2284.4	5.3
20°-30°	3956.4	9.2
30°-40°	6829.3	15.9
40°-50°	11623.7	27.0
50°-60°	11503.1	26.7
60°-70°	5250.3	12.2
70°-80°	674.3	1.6
80°-90°	76.0	0.2
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°	43042.4	100.0
0°-180°	43042.4	100.0

**Coefficient of Utilization**

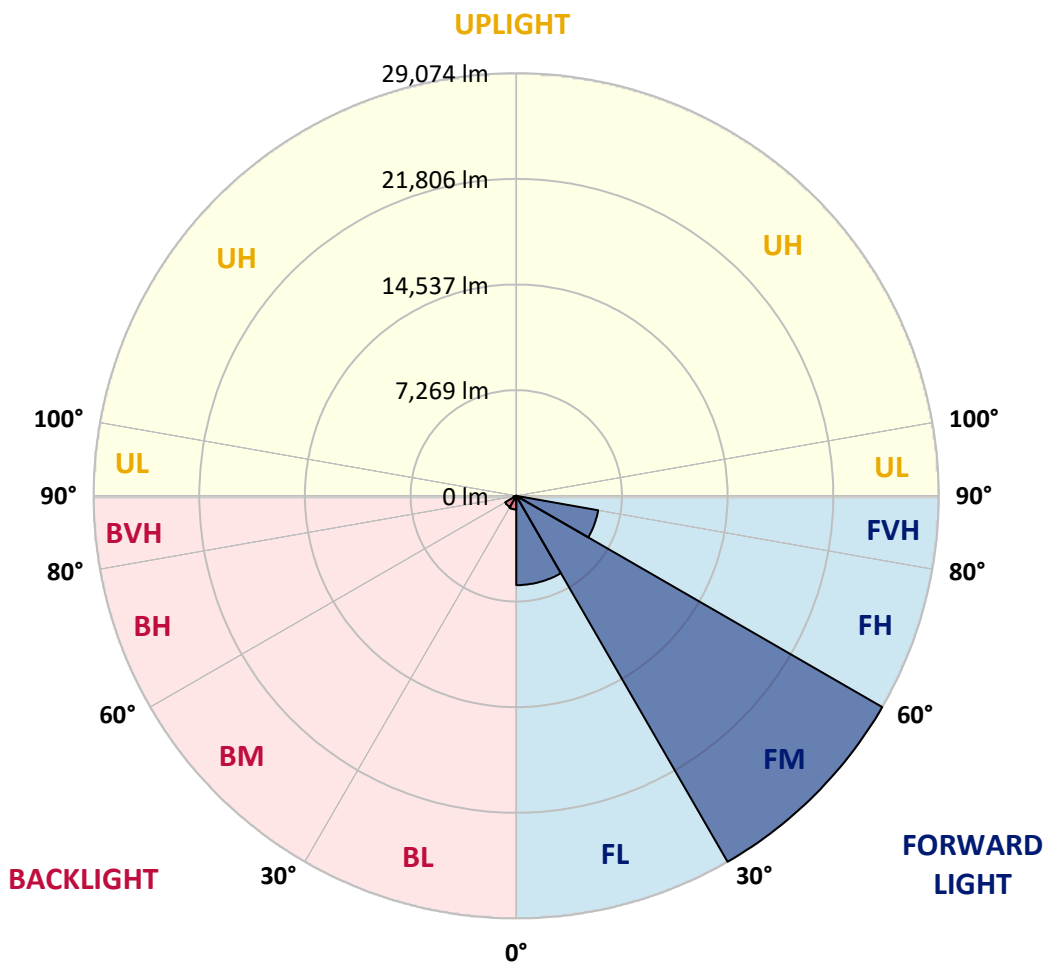


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6144.5	14.3			
FM (30°-60°)	29074.0	67.5			
FH (60°-80°)	5720.7	13.3			G3/7500
FVH (80°-90°)	67.8	0.2			G1/100
BL (0°-30°)	941.3	2.2	B2/1000		
BM (30°-60°)	882.1	2.0	B1/1000		
BH (60°-80°)	203.8	0.5	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8
2.5°	12153.1	12068.9	11952.7	11862.7	11650.7	11345.8	11023.5	11023.5	10712.7	10280.0	9838.7
5°	14017.5	13962.3	13849.1	13616.7	13378.6	12951.7	12304.2	12190.9	11636.2	10852.2	10027.4
7.5°	14775.4	14801.5	14807.3	14746.3	14633.1	14212.1	13570.3	13491.8	12606.2	11554.9	10274.2
10°	14049.4	14177.2	14302.0	14554.7	14911.9	15013.5	14650.6	14569.2	13698.0	12266.4	10541.4
12.5°	12969.1	13038.9	13108.5	13506.4	14223.7	15045.5	15425.9	15423.0	14685.4	12974.9	10881.2
15°	12466.7	12527.7	12533.5	12710.7	13332.1	14528.6	15757.0	15800.5	15649.5	13849.1	11247.1
17.5°	12571.3	12620.6	12580.0	12623.6	12948.8	13959.4	15719.2	15864.4	16430.7	14688.3	11578.1
20°	13253.7	13349.5	13192.8	13070.7	13169.5	13808.4	15591.5	15794.7	16982.4	15507.2	11880.1
22.5°	14479.2	14531.5	14334.0	14000.0	13825.8	14124.9	15556.6	15757.0	17452.9	16178.1	12054.4
25°	15841.2	15823.8	15605.9	15231.4	14865.4	14763.8	15786.0	15966.0	17842.0	16782.1	12106.7
27.5°	17203.2	17255.4	16889.5	16424.9	15986.4	15722.1	16300.0	16433.6	18280.5	17470.3	12170.5
30°	18785.8	18701.6	18341.5	17810.0	17307.7	16938.8	17127.6	17165.4	18884.6	18382.2	12339.0
32.5°	20844.7	20612.4	20208.7	19279.5	18919.4	18295.0	18341.5	18388.0	19619.3	19285.3	12542.3
35°	23638.3	23626.7	22836.9	21585.2	20708.2	19932.9	19729.6	19767.4	20731.5	20626.9	12992.4
37.5°	27001.1	27047.6	26147.4	24887.0	23272.4	22041.2	21623.0	21628.8	22421.6	22479.7	13677.7
40°	29739.6	29861.6	29324.3	28473.5	26879.2	24953.8	24251.1	24187.2	24797.1	24724.4	14656.4
42.5°	30918.6	31031.8	31232.2	31528.4	30651.4	29062.9	27404.7	27491.9	27677.7	27169.6	15754.0
45°	30340.7	30520.7	31307.7	33137.3	33961.9	33427.6	31450.0	31145.1	30358.1	29826.7	16857.6
47.5°	27933.3	28371.8	29687.3	32733.6	35620.1	37426.4	36015.1	35611.4	33041.4	31766.6	17560.3
50°	23975.2	24001.3	25833.8	29727.9	34760.5	39949.9	40676.0	40373.9	35541.8	32855.5	17914.6
52.5°	17380.3	17952.3	19630.9	24140.7	31037.7	39566.6	43646.7	43521.8	38120.4	33413.1	18425.7
54°	13213.0	13323.5	14816.1	19291.1	26760.1	37461.3	43829.6	43858.7	39401.1	33750.0	18727.7
55°	10831.8	10567.6	12135.7	16433.6	23841.6	35599.8	43231.4	43370.8	39976.1	33924.2	18951.3
57.5°	5134.2	5137.2	6336.4	8668.4	14932.2	27642.9	39575.4	40069.0	40039.9	34223.3	19639.5
60°	2599.0	2616.5	2880.8	4001.6	7376.1	18376.4	32722.0	33898.1	36958.8	34266.9	19866.1
62.5°	1817.9	1797.6	1754.0	1925.3	3104.4	9339.1	24361.4	25383.7	31400.7	32608.7	19145.9
65°	1556.5	1513.0	1391.0	1364.9	1568.1	3720.0	15173.2	16840.1	23975.2	28235.3	17095.7
67.5°	1330.0	1312.6	1202.2	1135.4	1109.3	1620.4	7829.1	8706.1	16387.1	20295.9	12948.8
70°	1129.6	1121.0	1054.1	969.9	897.3	969.9	2904.0	3598.1	9133.0	10927.6	6109.9
72.5°	917.6	926.4	938.0	830.6	755.0	688.3	1240.0	1443.2	3821.6	3905.9	2137.3
75°	804.4	795.7	795.7	723.1	630.2	511.1	682.5	734.7	1170.3	1086.1	496.6
77.5°	566.2	546.0	638.9	595.3	525.6	363.0	389.1	412.3	485.0	415.3	232.3
80°	392.1	392.1	409.5	534.4	473.3	264.2	238.1	255.6	287.5	246.8	133.6
82.5°	220.7	226.5	267.2	284.6	275.8	177.1	156.8	159.7	191.7	168.5	84.2
85°	26.2	43.6	153.9	151.0	113.3	78.4	87.1	90.0	119.1	104.5	49.4
87.5°	2.9	5.8	32.0	40.6	29.0	32.0	32.0	32.0	40.6	46.4	34.8
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°	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8	9562.8
2.5°	9600.5	9379.8	8854.2	8244.4	7855.3	7222.2	6687.9	6301.6	6205.8	6020.0	6075.1
5°	9588.9	9130.1	8058.5	6926.0	5718.0	4817.7	4146.9	3618.3	3386.0	3232.1	3124.7
7.5°	9594.7	8877.4	7158.3	5354.9	3911.7	3028.9	2407.4	2085.1	1870.1	1780.1	1791.8
10°	9612.1	8592.8	6112.9	3966.8	2639.7	1957.3	1576.9	1423.0	1350.3	1338.7	1335.8
12.5°	9652.8	8282.2	5113.9	2944.6	1846.9	1423.0	1277.7	1225.5	1202.2	1202.2	1193.5
15°	9696.4	7939.5	4283.4	2189.6	1423.0	1222.6	1155.8	1129.6	1115.2	1115.2	1112.2
17.5°	9696.4	7544.5	3508.0	1698.8	1225.5	1123.8	1071.6	1036.7	1025.1	1025.1	1022.2
20°	9635.3	7085.7	2819.8	1367.8	1112.2	1030.9	978.7	940.9	926.4	920.6	917.6
22.5°	9423.4	6472.9	2244.8	1176.1	1019.3	949.6	882.8	839.2	827.6	821.8	824.8
25°	9045.9	5781.8	1777.2	1033.8	935.1	850.8	792.8	760.9	749.2	749.2	752.1
27.5°	8656.7	5058.7	1408.4	926.4	833.4	757.9	711.5	691.1	688.3	696.9	699.9
30°	8296.6	4332.7	1141.2	839.2	743.4	679.5	647.6	641.8	641.8	644.7	647.6
32.5°	7895.9	3696.8	955.4	763.7	670.8	615.6	598.2	598.2	604.0	604.0	609.8
35°	7643.3	3150.8	839.2	691.1	615.6	569.2	557.6	560.4	569.2	580.8	586.6
37.5°	7506.8	2715.3	763.7	633.1	563.4	531.4	519.8	525.6	546.0	566.2	569.2
40°	7518.4	2387.1	702.7	583.7	522.7	487.9	479.1	496.6	516.9	537.2	540.2
42.5°	7646.1	2143.1	644.7	525.6	487.9	438.5	435.6	453.0	461.7	482.1	485.0
45°	7797.2	1966.0	583.7	464.7	423.9	380.4	383.3	397.9	409.5	441.4	447.2
47.5°	7843.6	1844.1	514.0	394.9	348.5	334.0	336.8	345.6	368.8	397.9	400.7
50°	7895.9	1768.5	447.2	334.0	296.2	293.3	296.2	302.0	316.6	328.2	325.2
52.5°	8119.5	1765.6	392.1	290.4	252.6	258.4	261.4	258.4	246.8	229.4	223.6
54°	8328.6	1774.3	365.9	270.0	232.3	241.0	238.1	223.6	194.6	177.1	168.5
55°	8497.0	1783.0	351.4	255.6	220.7	223.6	226.5	197.5	159.7	142.3	136.5
57.5°	8828.1	1762.7	316.6	223.6	194.6	182.9	180.1	130.7	87.1	75.5	69.7
60°	8662.6	1591.3	287.5	191.7	165.5	148.1	121.9	72.6	43.6	32.0	32.0
62.5°	8012.0	1350.3	255.6	156.8	136.5	113.3	63.9	40.6	20.4	11.6	8.7
65°	7167.0	1135.4	229.4	124.9	107.5	72.6	34.8	26.2	8.7	0.0	0.0
67.5°	5328.8	842.2	194.6	98.7	81.3	46.4	23.2	14.5	2.9	0.0	0.0
70°	2468.3	514.0	165.5	75.5	58.1	34.8	17.4	8.7	0.0	0.0	0.0
72.5°	708.5	322.4	136.5	55.2	40.6	29.0	14.5	5.8	2.9	0.0	0.0
75°	246.8	258.4	101.7	40.6	32.0	20.4	11.6	5.8	2.9	0.0	0.0
77.5°	148.1	209.1	63.9	34.8	26.2	17.4	11.6	5.8	2.9	2.9	0.0
80°	84.2	139.4	40.6	29.0	23.2	14.5	8.7	5.8	2.9	2.9	0.0
82.5°	46.4	66.8	32.0	26.2	20.4	14.5	8.7	5.8	2.9	2.9	2.9
85°	37.8	34.8	26.2	23.2	17.4	11.6	8.7	2.9	0.0	0.0	0.0
87.5°	29.0	23.2	23.2	23.2	17.4	11.6	8.7	2.9	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)