

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: P534616

Luminaire Tested: **GALN-SA7A-AMB-U-SL4**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-AMB-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 138.6
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



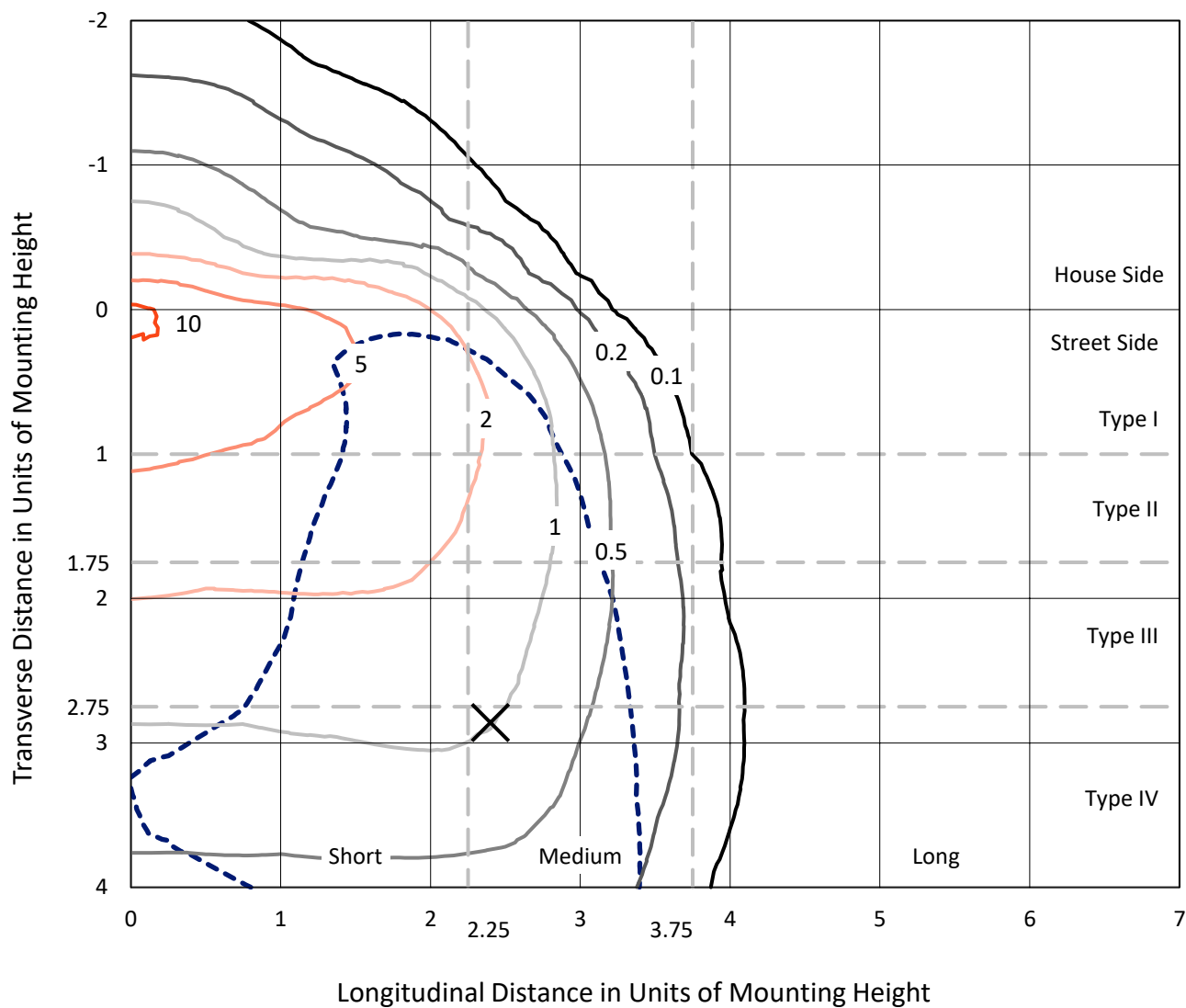
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

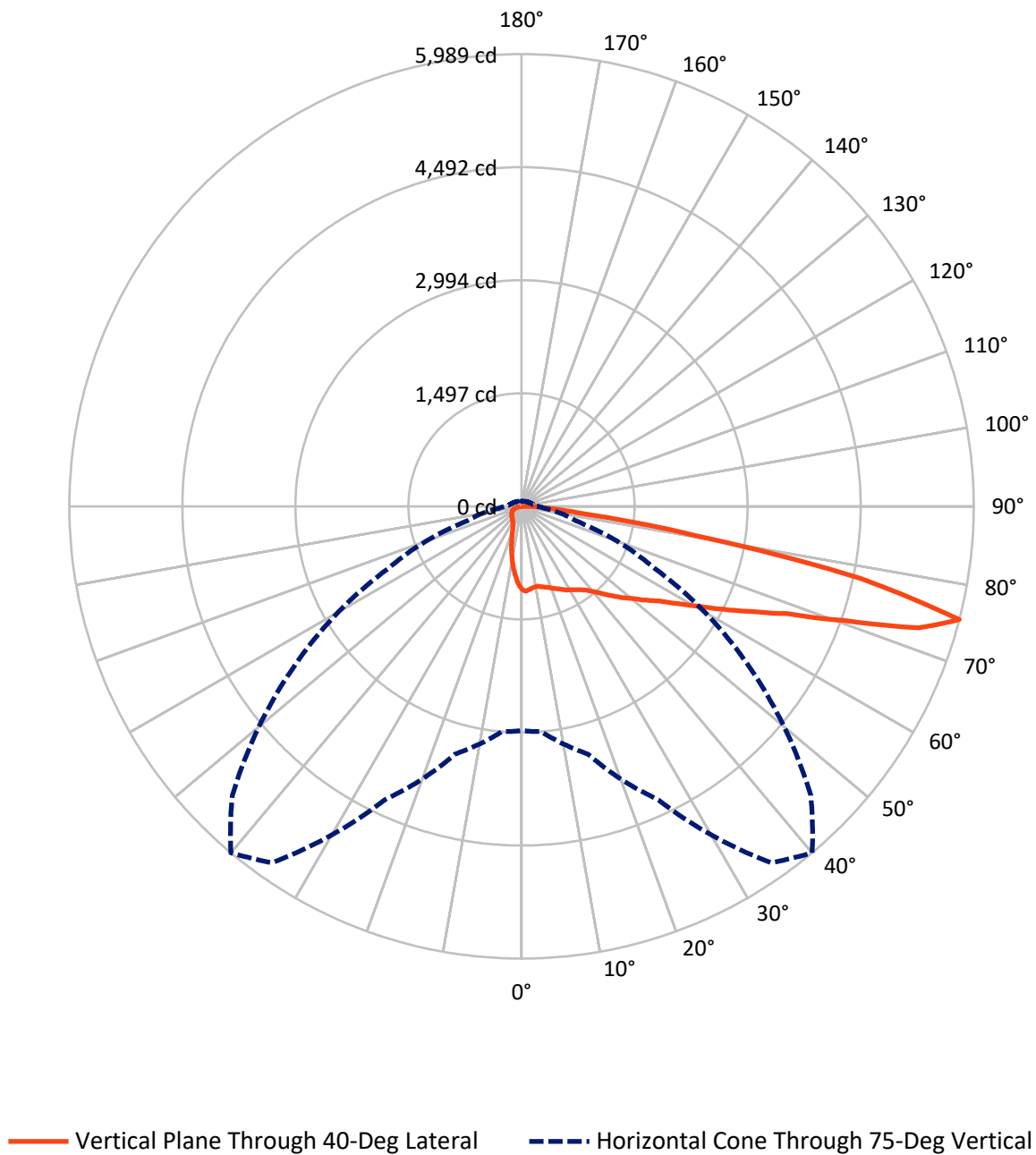
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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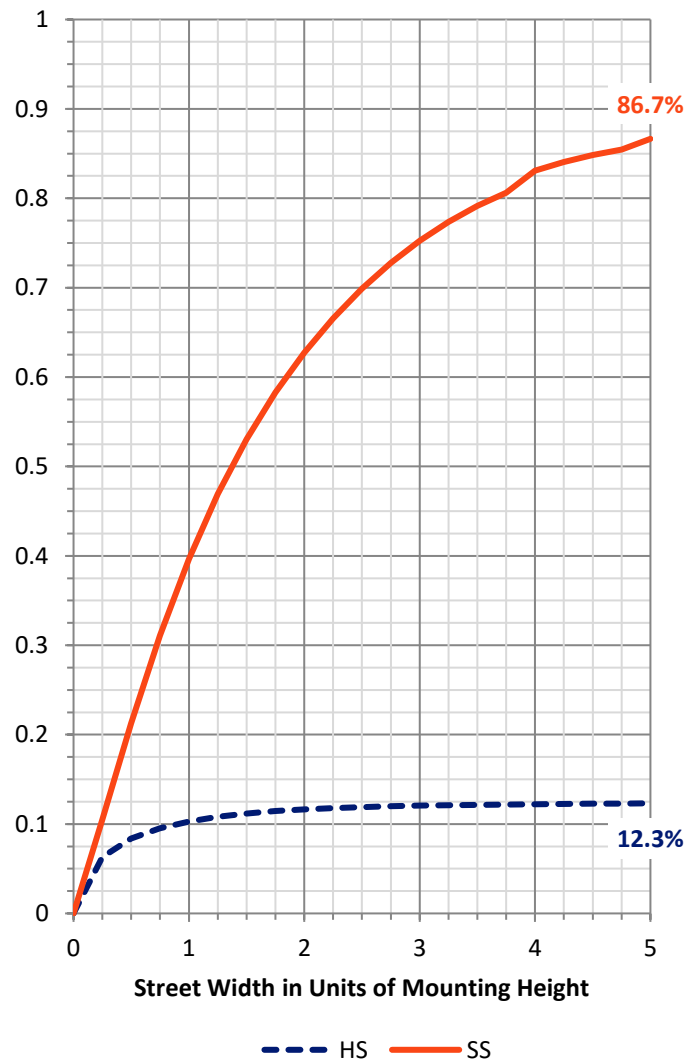
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.3	0.0	835.3
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	5878.7	0.0	5878.7
	% Fixture	87.6	0.0	87.6
Total	Lumens	6714.0	0.0	6714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.4
10°-20°	238.7	3.6
20°-30°	368.7	5.5
30°-40°	536.3	8.0
40°-50°	802.6	12.0
50°-60°	1199.3	17.9
60°-70°	1689.7	25.2
70°-80°	1554.6	23.2
80°-90°	229.3	3.4
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°	6714.0	100.0
0°-180°	6714.0	100.0

Coefficient of Utilization



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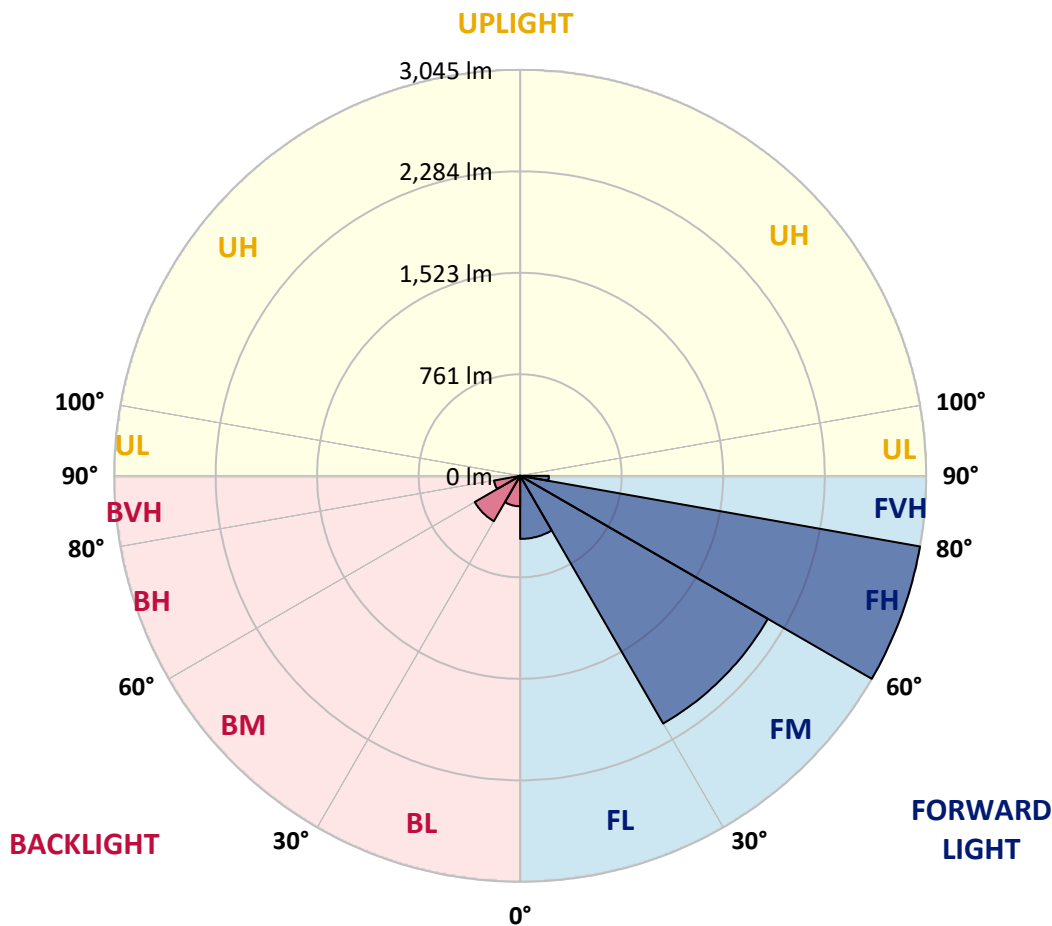
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.6	7.1			
FM	(30°-60°)	2145.1	31.9			
FH	(60°-80°)	3045.1	45.4			G2/5000
FVH	(80°-90°)	214.9	3.2			G2/225
BL	(0°-30°)	228.6	3.4	B1/500		
BM	(30°-60°)	393.2	5.9	B1/1000		
BH	(60°-80°)	199.3	3.0	B1/500		G1/500
BVH	(80°-90°)	14.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1123.7	1126.7	1123.7	1123.7	1117.6	1123.7	1114.5	1111.5	1105.4	1105.4	1093.3
5°	1108.5	1114.5	1108.5	1108.5	1105.4	1105.4	1096.3	1093.3	1084.2	1084.2	1069.0
7.5°	1084.2	1081.1	1084.2	1084.2	1084.2	1087.2	1081.1	1072.0	1069.0	1056.8	1050.8
10°	1059.9	1066.0	1062.9	1072.0	1075.1	1075.1	1075.1	1069.0	1062.9	1047.7	1038.6
12.5°	1035.6	1038.6	1056.8	1069.0	1084.2	1090.2	1087.2	1081.1	1072.0	1053.8	1029.5
15°	1041.7	1032.5	1050.8	1078.1	1099.4	1108.5	1096.3	1096.3	1075.1	1053.8	1029.5
17.5°	1038.6	1038.6	1062.9	1096.3	1123.7	1126.7	1126.7	1111.5	1090.2	1069.0	1029.5
20°	1053.8	1053.8	1084.2	1120.6	1151.0	1157.1	1154.0	1123.7	1099.4	1075.1	1050.8
22.5°	1084.2	1087.2	1117.6	1160.1	1175.3	1184.4	1175.3	1144.9	1117.6	1099.4	1059.9
25°	1132.8	1129.7	1154.0	1196.5	1220.8	1214.8	1214.8	1166.2	1135.8	1123.7	1090.2
27.5°	1175.3	1178.3	1193.5	1236.0	1248.2	1254.2	1242.1	1187.4	1160.1	1163.1	1123.7
30°	1233.0	1239.1	1248.2	1269.4	1278.5	1281.6	1281.6	1226.9	1196.5	1214.8	1160.1
32.5°	1305.9	1302.8	1305.9	1321.1	1305.9	1315.0	1311.9	1260.3	1245.1	1284.6	1217.8
35°	1384.8	1384.8	1375.7	1366.6	1342.3	1354.5	1354.5	1305.9	1311.9	1375.7	1278.5
37.5°	1466.8	1454.7	1439.5	1412.2	1393.9	1409.1	1418.2	1375.7	1403.0	1497.2	1390.9
40°	1542.7	1518.5	1488.1	1472.9	1460.7	1485.0	1497.2	1472.9	1512.4	1655.1	1539.7
42.5°	1588.3	1585.3	1548.8	1530.6	1542.7	1582.2	1588.3	1576.2	1655.1	1837.3	1706.7
45°	1646.0	1630.8	1597.4	1588.3	1639.9	1691.6	1709.8	1694.6	1816.1	2065.1	1882.9
47.5°	1682.4	1667.3	1639.9	1661.2	1737.1	1807.0	1846.4	1846.4	2004.4	2305.0	2074.2
50°	1718.9	1697.6	1682.4	1752.3	1831.3	1919.3	1974.0	2010.4	2207.8	2548.0	2295.9
52.5°	1782.7	1746.2	1731.0	1852.5	1949.7	2065.1	2156.2	2192.6	2444.7	2815.2	2508.5
55°	1867.7	1843.4	1797.8	1961.8	2089.4	2210.9	2326.3	2426.5	2675.5	3058.2	2684.6
57.5°	1958.8	1931.5	1895.0	2098.5	2286.8	2429.5	2544.9	2690.7	2945.8	3325.4	2845.6
60°	2077.2	2049.9	2022.6	2259.5	2523.7	2681.6	2827.4	2988.3	3234.3	3541.0	2979.2
62.5°	2192.6	2168.3	2165.3	2435.6	2797.0	3003.5	3121.9	3301.1	3501.5	3717.2	3039.9
65°	2335.4	2323.2	2317.2	2651.2	3149.3	3358.8	3486.4	3674.7	3811.3	3866.0	2957.9
67.5°	2469.0	2484.2	2535.8	2915.4	3531.9	3790.1	3984.4	4184.9	4139.3	3878.1	2532.8
70°	2721.1	2727.1	2848.6	3304.1	4136.3	4525.0	4749.7	4722.4	4181.8	3361.9	1725.0
72.5°	2988.3	3033.9	3258.6	3893.3	5065.6	5502.9	5569.7	4795.3	3531.9	2131.9	741.0
75°	2970.1	2994.4	3395.3	4288.1	5761.0	5988.8	5417.8	3659.5	1946.7	744.0	306.7
77.5°	2368.8	2435.6	2869.9	3790.1	4925.9	4594.8	3516.7	1819.1	622.6	273.3	185.3
80°	1111.5	1239.1	1503.3	1977.0	2654.3	2320.2	1503.3	741.0	312.8	176.1	130.6
82.5°	519.3	540.6	601.3	656.0	886.8	862.5	622.6	583.1	239.9	106.3	63.8
85°	355.3	385.7	428.2	376.6	406.9	403.9	431.2	577.0	167.0	60.7	39.5
87.5°	243.0	258.1	288.5	221.7	246.0	227.8	270.3	498.1	54.7	24.3	12.1
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°	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1087.2	1081.1	1062.9	1059.9	1056.8	1038.6	1035.6	1026.5	1020.4	1017.4	1020.4
5°	1062.9	1053.8	1032.5	1014.3	980.9	950.6	929.3	908.0	892.8	895.9	895.9
7.5°	1041.7	1032.5	999.1	965.7	908.0	865.5	813.9	774.4	750.1	731.9	738.0
10°	1026.5	1011.3	968.8	908.0	835.1	762.3	704.6	640.8	601.3	586.1	586.1
12.5°	1020.4	1002.2	932.3	850.3	756.2	668.1	583.1	516.3	467.7	455.5	449.5
15°	1014.3	980.9	892.8	786.6	671.2	570.9	479.8	416.1	361.4	340.1	343.2
17.5°	1011.3	971.8	856.4	728.9	595.2	476.8	391.8	324.9	294.6	279.4	279.4
20°	1014.3	962.7	826.0	659.0	510.2	394.8	315.8	276.4	258.1	249.0	252.1
22.5°	1023.4	950.6	774.4	592.2	440.4	331.0	276.4	255.1	243.0	236.9	236.9
25°	1035.6	950.6	741.0	519.3	376.6	291.5	252.1	239.9	230.8	230.8	224.7
27.5°	1059.9	953.6	695.5	458.6	324.9	261.2	239.9	227.8	221.7	221.7	221.7
30°	1072.0	950.6	652.9	403.9	285.5	243.0	224.7	221.7	218.7	212.6	212.6
32.5°	1102.4	947.5	604.3	355.3	258.1	227.8	215.6	212.6	209.5	206.5	206.5
35°	1154.0	959.7	543.6	315.8	236.9	215.6	206.5	203.5	200.4	200.4	197.4
37.5°	1217.8	977.9	501.1	282.4	221.7	203.5	197.4	194.4	194.4	194.4	194.4
40°	1318.0	1017.4	464.6	261.2	209.5	194.4	188.3	188.3	188.3	185.3	185.3
42.5°	1430.4	1066.0	434.3	246.0	203.5	188.3	182.2	179.2	179.2	179.2	179.2
45°	1564.0	1117.6	406.9	233.8	200.4	185.3	179.2	173.1	173.1	173.1	170.1
47.5°	1706.7	1178.3	385.7	227.8	194.4	182.2	173.1	170.1	167.0	164.0	164.0
50°	1861.6	1248.2	376.6	224.7	191.3	176.1	167.0	164.0	161.0	154.9	154.9
52.5°	2007.4	1318.0	382.6	221.7	188.3	170.1	161.0	161.0	154.9	148.8	151.8
55°	2125.8	1384.8	388.7	221.7	185.3	161.0	154.9	154.9	148.8	142.7	142.7
57.5°	2232.1	1433.4	391.8	224.7	185.3	154.9	145.8	148.8	142.7	139.7	139.7
60°	2311.1	1451.6	391.8	230.8	185.3	148.8	136.7	142.7	139.7	133.6	136.7
62.5°	2305.0	1378.8	364.4	233.8	185.3	145.8	130.6	136.7	142.7	136.7	136.7
65°	2098.5	1099.4	315.8	218.7	182.2	142.7	121.5	130.6	139.7	136.7	136.7
67.5°	1588.3	728.9	255.1	197.4	167.0	136.7	115.4	115.4	124.5	121.5	124.5
70°	929.3	394.8	209.5	170.1	145.8	124.5	106.3	100.2	100.2	100.2	100.2
72.5°	382.6	230.8	170.1	142.7	124.5	106.3	94.1	85.0	82.0	82.0	82.0
75°	212.6	170.1	139.7	115.4	100.2	88.1	82.0	72.9	69.8	69.8	69.8
77.5°	154.9	139.7	112.4	88.1	75.9	69.8	63.8	60.7	57.7	57.7	57.7
80°	118.4	109.3	85.0	66.8	57.7	48.6	48.6	45.6	45.6	45.6	45.6
82.5°	69.8	82.0	60.7	45.6	42.5	36.4	33.4	33.4	33.4	30.4	30.4
85°	45.6	60.7	36.4	27.3	21.3	18.2	21.3	18.2	18.2	15.2	15.2
87.5°	9.1	18.2	9.1	3.0	3.0	3.0	3.0	3.0	3.0	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)