

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: P527408

Luminaire Tested: **GALN-SA2B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7627 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

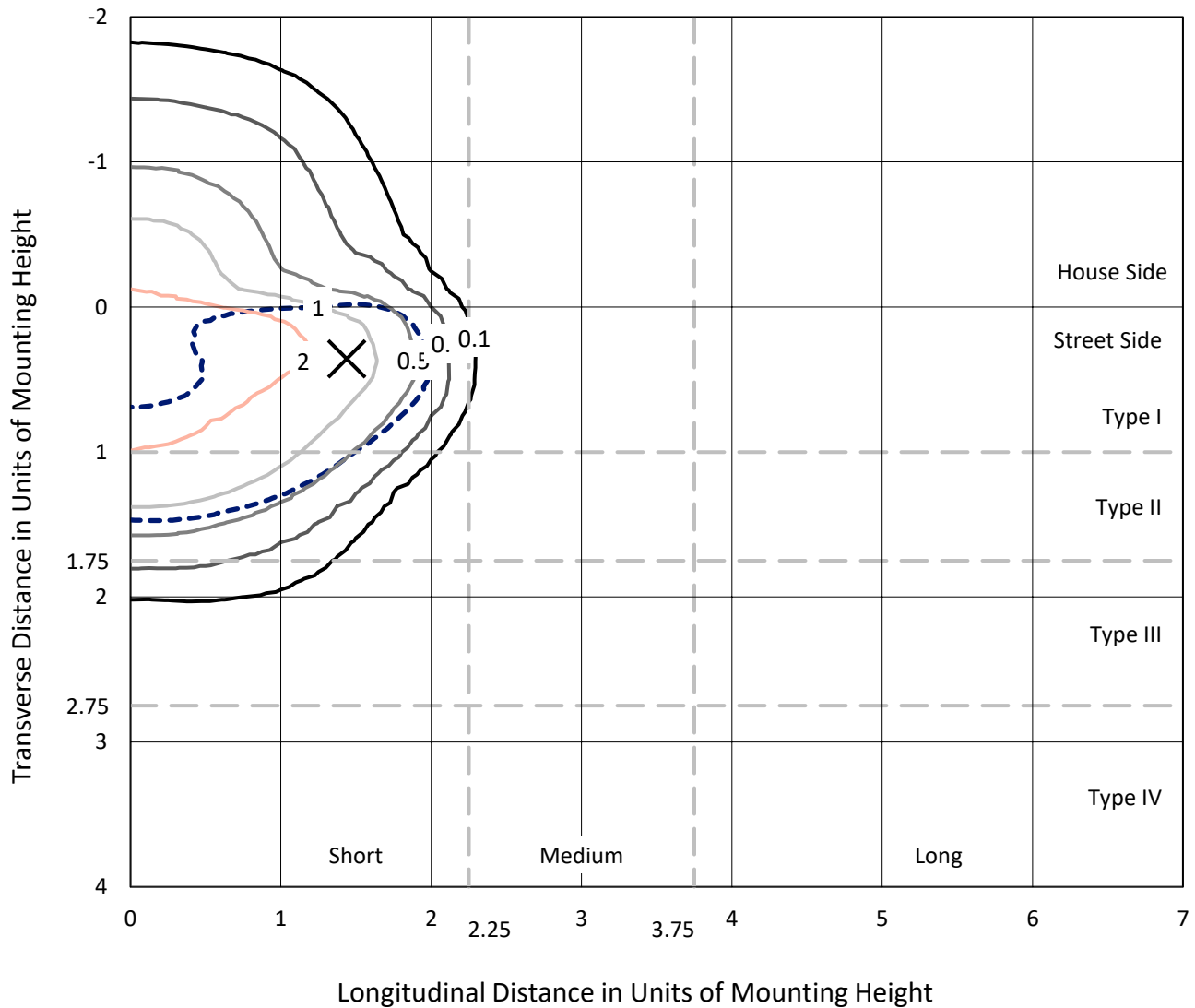
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

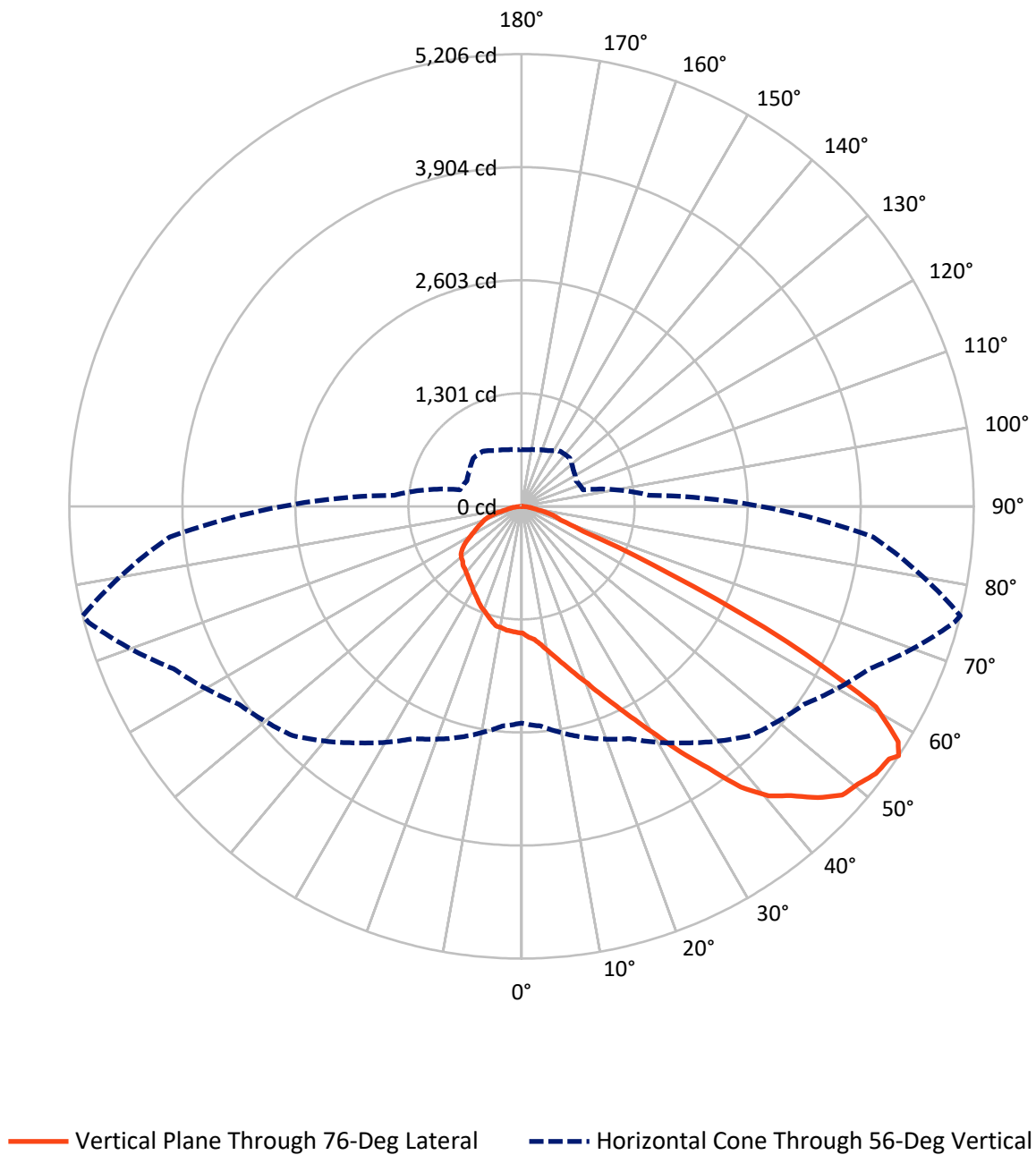
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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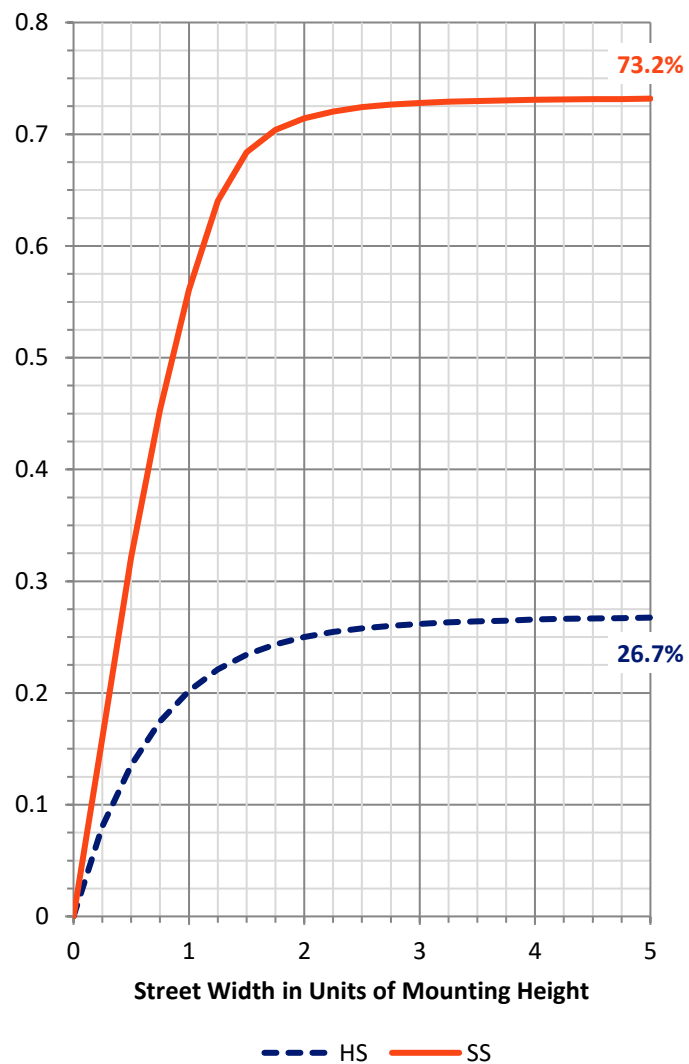
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.7	0.0	2050.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5576.3	0.0	5576.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	7627.0	0.0	7627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.9
10°-20°	454.6	6.0
20°-30°	795.1	10.4
30°-40°	1244.8	16.3
40°-50°	1810.9	23.7
50°-60°	1990.3	26.1
60°-70°	888.4	11.6
70°-80°	256.6	3.4
80°-90°	41.6	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°	7627.0	100.0
0°-180°	7627.0	100.0

Coefficient of Utilization



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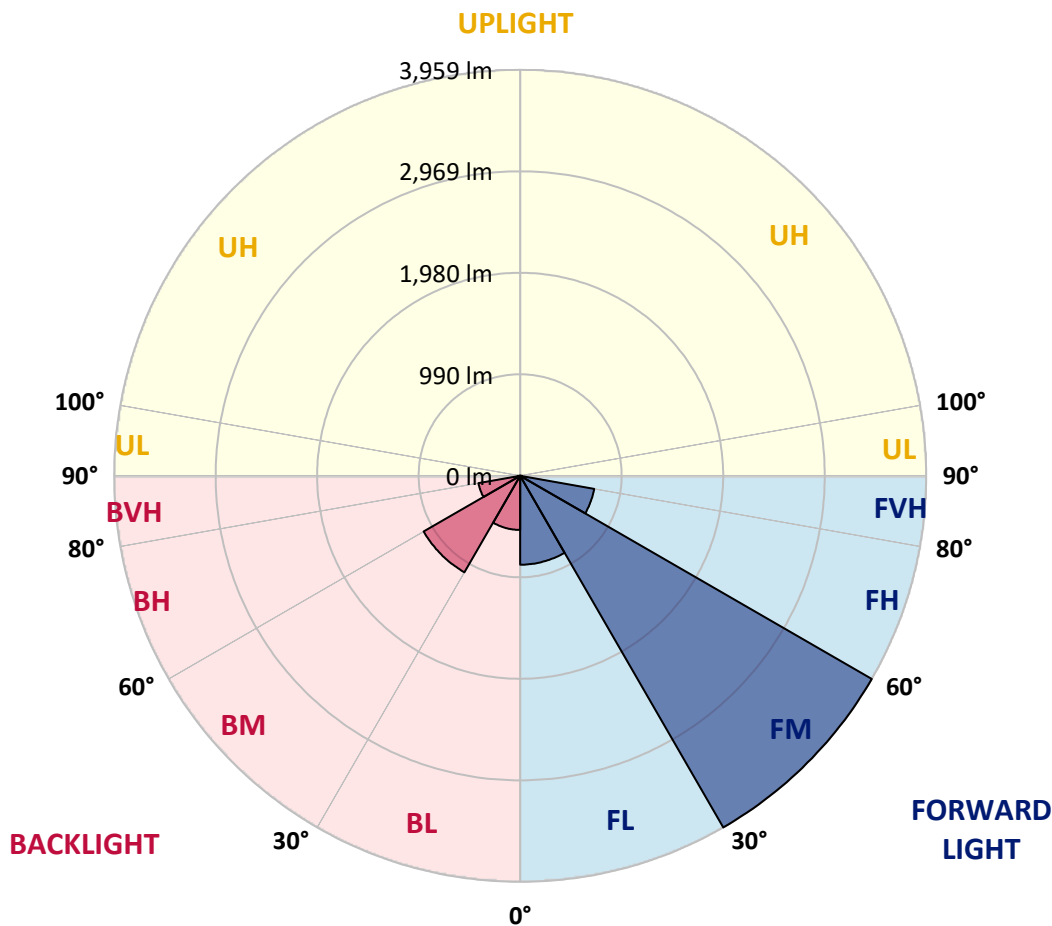
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	866.7	11.4			
FM	(30°-60°)	3959.3	51.9			
FH	(60°-80°)	732.4	9.6			G1/1800
FVH	(80°-90°)	17.9	0.2			G1/100
BL	(0°-30°)	527.7	6.9	B2/1000		
BM	(30°-60°)	1086.7	14.2	B2/2500		
BH	(60°-80°)	412.6	5.4	B1/500		G1/500
BVH	(80°-90°)	23.7	0.3			G1/100
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°	55°	65°	75°	76°	85°
0°	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3
2.5°	1607.6	1581.9	1580.0	1573.0	1577.0	1559.2	1540.4	1515.7	1490.0	1505.8	1468.2
5°	1720.3	1685.7	1699.6	1675.9	1678.8	1655.1	1616.5	1587.9	1556.2	1537.4	1510.7
7.5°	1759.9	1762.9	1772.7	1768.8	1749.0	1749.0	1723.3	1672.9	1617.5	1606.6	1562.2
10°	1813.3	1814.3	1803.4	1806.4	1834.0	1821.2	1798.5	1776.7	1705.5	1692.7	1613.6
12.5°	1832.1	1814.3	1832.1	1847.9	1880.5	1898.3	1893.4	1877.6	1801.4	1792.5	1676.8
15°	1835.0	1824.2	1839.0	1874.6	1903.3	1978.4	2016.0	2005.1	1904.2	1905.2	1748.0
17.5°	1821.2	1836.0	1842.0	1872.6	1938.9	2009.0	2117.8	2132.6	2049.6	2036.7	1838.0
20°	1840.0	1829.1	1837.0	1864.7	1952.7	2062.4	2204.8	2302.7	2186.0	2177.1	1930.9
22.5°	1912.2	1897.3	1895.3	1913.1	1976.4	2090.1	2296.8	2472.8	2352.1	2357.1	2046.6
25°	1968.5	1976.4	1969.5	1968.5	2008.1	2131.6	2418.4	2675.4	2577.6	2548.9	2183.1
27.5°	2065.4	2084.2	2070.3	2089.1	2080.2	2193.9	2505.4	2899.9	2820.8	2782.2	2306.6
30°	2199.9	2209.8	2196.9	2196.9	2170.2	2280.9	2584.5	3134.2	3101.6	3049.2	2452.0
32.5°	2376.8	2391.7	2366.0	2351.1	2347.2	2410.5	2726.8	3365.6	3420.9	3376.4	2644.8
35°	2611.2	2602.3	2571.6	2557.8	2504.4	2609.2	2938.4	3631.5	3776.9	3697.8	2878.1
37.5°	2817.8	2804.0	2802.0	2724.9	2737.7	2823.7	3118.4	3833.2	4121.9	4099.2	3124.3
40°	3010.6	3023.5	3044.2	3000.7	2980.9	3075.9	3328.0	3987.4	4389.9	4381.0	3314.1
42.5°	3217.2	3205.4	3242.0	3205.4	3175.7	3310.2	3555.4	4094.2	4625.2	4552.0	3512.9
45°	3516.8	3479.3	3492.1	3495.1	3473.3	3522.8	3649.3	4171.3	4790.3	4782.4	3658.2
47.5°	3767.0	3768.0	3746.2	3729.4	3663.2	3712.6	3754.1	4219.8	4980.1	4967.3	3714.6
50°	3859.9	3847.1	3910.3	3946.9	3950.9	3850.0	3836.2	4246.5	5080.0	5023.6	3770.9
52.5°	3525.7	3537.6	3637.4	3855.0	3980.5	3991.4	3932.1	4301.9	5120.5	5108.6	3816.4
55°	2837.6	2894.9	3059.1	3310.2	3607.8	3935.0	4035.9	4359.2	5142.3	5132.4	4018.1
56°	2494.5	2539.0	2752.6	2949.3	3323.0	3730.4	3970.6	4420.5	5159.1	5205.5	4065.6
57.5°	2008.1	2059.5	2212.7	2436.2	2877.1	3340.8	3790.7	4345.4	5093.8	5111.6	4100.2
60°	1255.7	1260.6	1444.5	1591.8	1902.3	2355.1	2893.0	3780.8	4714.1	4688.4	3682.9
62.5°	823.6	824.6	991.7	1112.3	1253.7	1357.5	1702.5	2507.4	3478.3	3432.8	2622.0
65°	578.4	591.2	720.8	881.9	939.3	884.9	874.0	1321.9	1942.8	1877.6	1408.9
67.5°	423.2	424.2	538.8	711.9	794.9	673.3	546.8	645.6	769.2	767.2	652.5
70°	279.8	291.7	379.7	531.9	626.8	540.8	446.9	461.7	489.4	489.4	485.5
72.5°	163.1	174.0	232.3	337.1	352.0	338.1	354.0	395.5	413.3	412.3	407.3
75°	92.9	97.9	110.7	140.4	175.0	206.6	260.0	299.6	317.4	328.3	315.4
77.5°	54.4	57.3	65.3	80.1	91.0	111.7	141.4	169.1	192.8	189.8	191.8
80°	28.7	28.7	36.6	47.5	63.3	79.1	93.9	109.7	122.6	125.6	128.5
82.5°	16.8	17.8	23.7	34.6	45.5	56.4	72.2	83.1	94.9	95.9	97.9
85°	8.9	9.9	14.8	22.7	30.6	34.6	35.6	33.6	36.6	34.6	39.5
87.5°	3.0	3.0	4.9	4.0	4.0	4.9	5.9	5.9	7.9	7.9	7.9
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°	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3	1459.3
2.5°	1467.2	1467.2	1450.4	1418.8	1413.8	1401.0	1389.1	1388.1	1379.2	1371.3	1367.4
5°	1494.9	1464.3	1439.6	1410.9	1377.3	1361.4	1343.7	1323.9	1316.0	1323.9	1322.9
7.5°	1526.6	1500.9	1426.7	1373.3	1334.8	1318.9	1299.2	1278.4	1280.4	1280.4	1266.5
10°	1557.2	1522.6	1404.0	1335.7	1279.4	1267.5	1256.6	1264.6	1274.4	1276.4	1267.5
12.5°	1608.6	1530.5	1393.1	1298.2	1262.6	1236.9	1243.8	1265.5	1286.3	1280.4	1287.3
15°	1647.2	1537.4	1343.7	1259.6	1215.1	1227.0	1251.7	1266.5	1301.1	1297.2	1304.1
17.5°	1684.8	1541.4	1295.2	1208.2	1189.4	1222.0	1240.8	1283.3	1294.2	1317.9	1326.8
20°	1761.9	1549.3	1245.8	1176.6	1170.6	1208.2	1240.8	1260.6	1284.3	1305.1	1305.1
22.5°	1801.4	1545.3	1213.1	1135.0	1153.8	1177.5	1207.2	1240.8	1240.8	1260.6	1261.6
25°	1850.9	1529.5	1161.7	1115.3	1129.1	1151.8	1185.5	1173.6	1186.4	1186.4	1202.3
27.5°	1907.2	1495.9	1117.2	1079.7	1107.3	1132.1	1137.0	1129.1	1114.3	1112.3	1106.4
30°	1952.7	1454.4	1084.6	1067.8	1090.5	1104.4	1088.6	1071.8	1046.0	1044.1	1030.2
32.5°	2015.0	1403.0	1044.1	1038.1	1063.8	1064.8	1059.9	1034.2	996.6	980.8	965.0
35°	2119.8	1373.3	1013.4	1022.3	1030.2	1027.3	1018.4	990.7	953.1	946.2	940.3
37.5°	2196.9	1351.6	981.8	992.7	999.6	1003.5	976.8	946.2	947.2	933.3	929.4
40°	2283.9	1337.7	956.1	961.0	962.0	974.9	942.2	927.4	934.3	925.4	931.4
42.5°	2395.6	1341.7	929.4	925.4	944.2	939.3	923.5	903.7	907.6	880.9	884.9
45°	2455.0	1368.4	913.6	895.8	916.5	915.5	894.8	876.0	852.3	800.9	802.8
47.5°	2494.5	1375.3	876.0	864.1	885.9	898.7	875.0	831.5	797.9	761.3	752.4
50°	2535.0	1388.1	858.2	833.5	842.4	873.0	843.4	801.8	769.2	736.6	741.5
52.5°	2570.6	1412.9	823.6	787.0	802.8	836.4	820.6	770.2	734.6	707.9	700.0
55°	2728.8	1468.2	765.3	717.8	755.4	797.9	789.0	727.7	689.1	675.3	673.3
56°	2753.5	1470.2	734.6	694.1	728.7	785.0	774.2	708.9	674.3	652.5	653.5
57.5°	2757.5	1446.5	691.1	672.3	702.0	766.2	752.4	694.1	646.6	626.8	620.9
60°	2426.3	1129.1	636.7	624.9	659.5	708.9	704.0	653.5	600.1	577.4	588.3
62.5°	1654.1	827.5	594.2	592.2	610.0	658.5	645.6	600.1	555.7	540.8	533.9
65°	963.0	627.8	552.7	544.8	559.6	585.3	594.2	546.8	500.3	490.4	487.4
67.5°	568.5	519.1	499.3	486.4	481.5	497.3	504.2	476.6	430.1	416.2	428.1
70°	475.6	461.7	462.7	441.0	429.1	418.2	412.3	387.6	349.0	331.2	326.3
72.5°	410.3	404.4	400.4	380.7	369.8	345.1	319.4	294.6	266.0	251.1	252.1
75°	313.4	311.4	313.4	303.5	284.7	265.0	241.2	209.6	187.9	169.1	173.0
77.5°	186.9	192.8	195.8	191.8	183.9	166.1	151.3	130.5	109.7	94.9	92.9
80°	128.5	133.5	138.4	133.5	125.6	112.7	96.9	81.1	66.2	58.3	56.4
82.5°	97.9	102.8	105.8	100.8	91.0	77.1	66.2	55.4	43.5	35.6	33.6
85°	35.6	40.5	39.5	47.5	51.4	49.4	42.5	32.6	24.7	17.8	16.8
87.5°	9.9	8.9	9.9	9.9	9.9	8.9	7.9	7.9	7.9	4.9	4.0
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)