

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: P527854

Luminaire Tested: **GALN-SA2D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9751 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

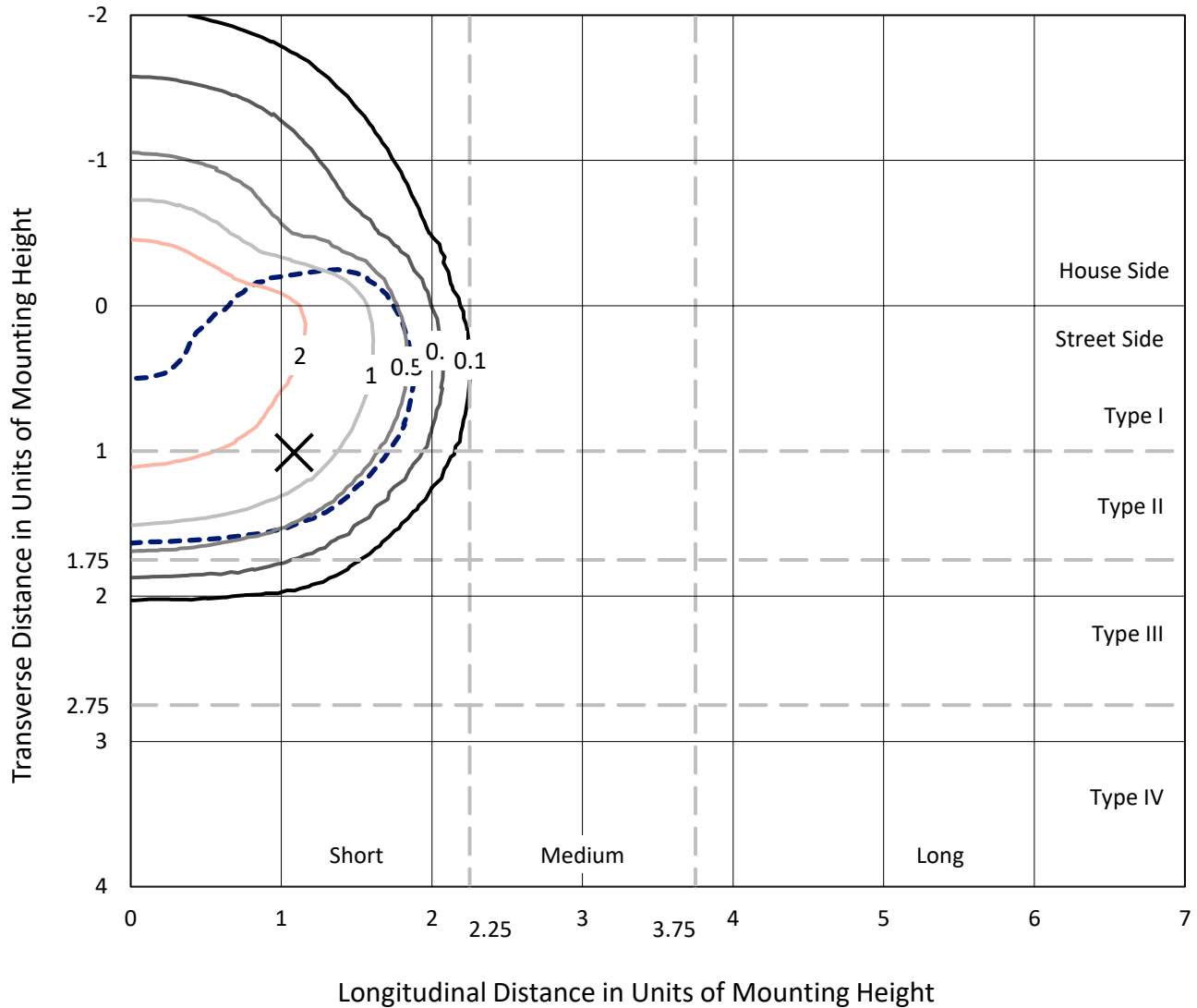
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

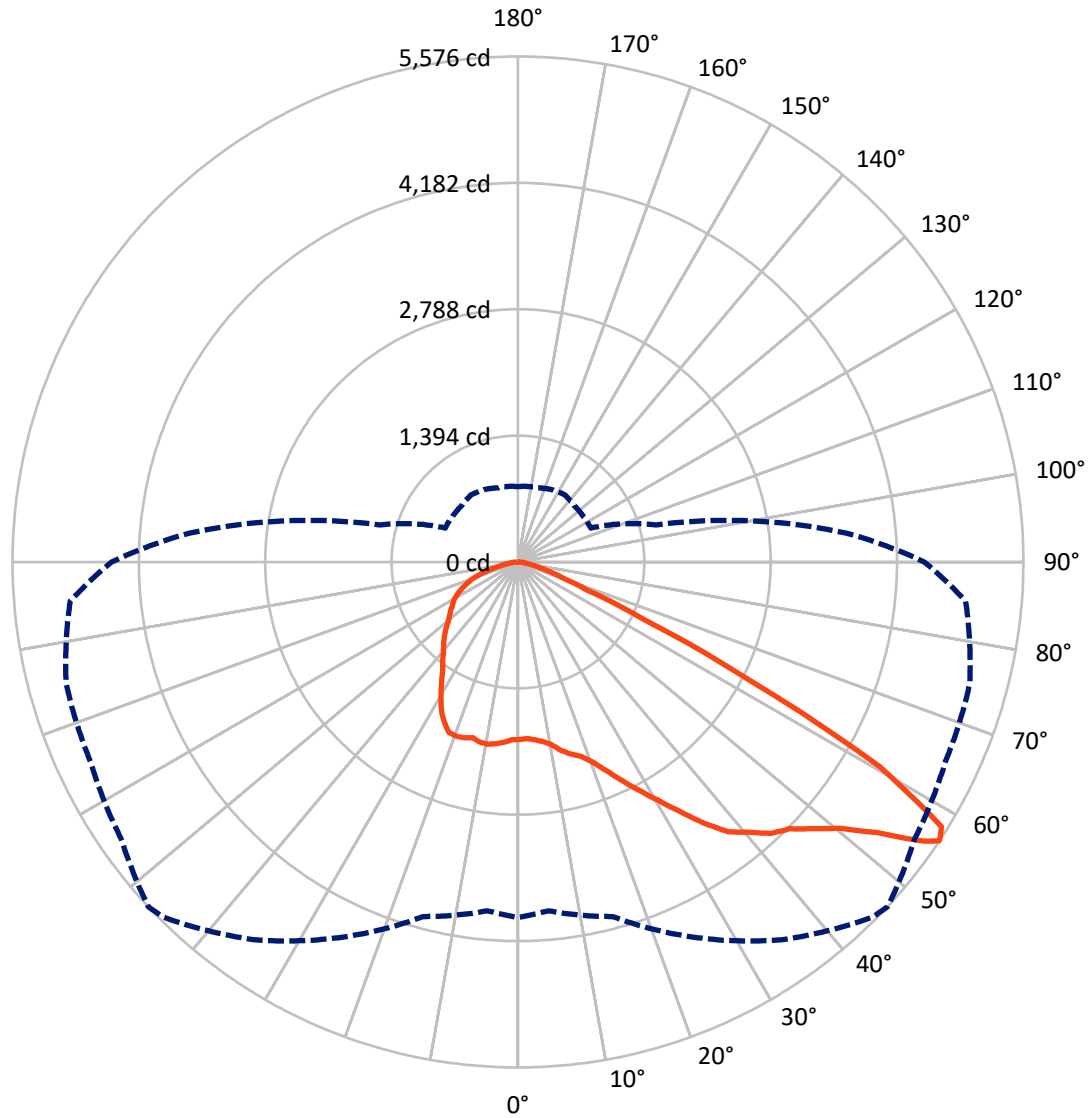
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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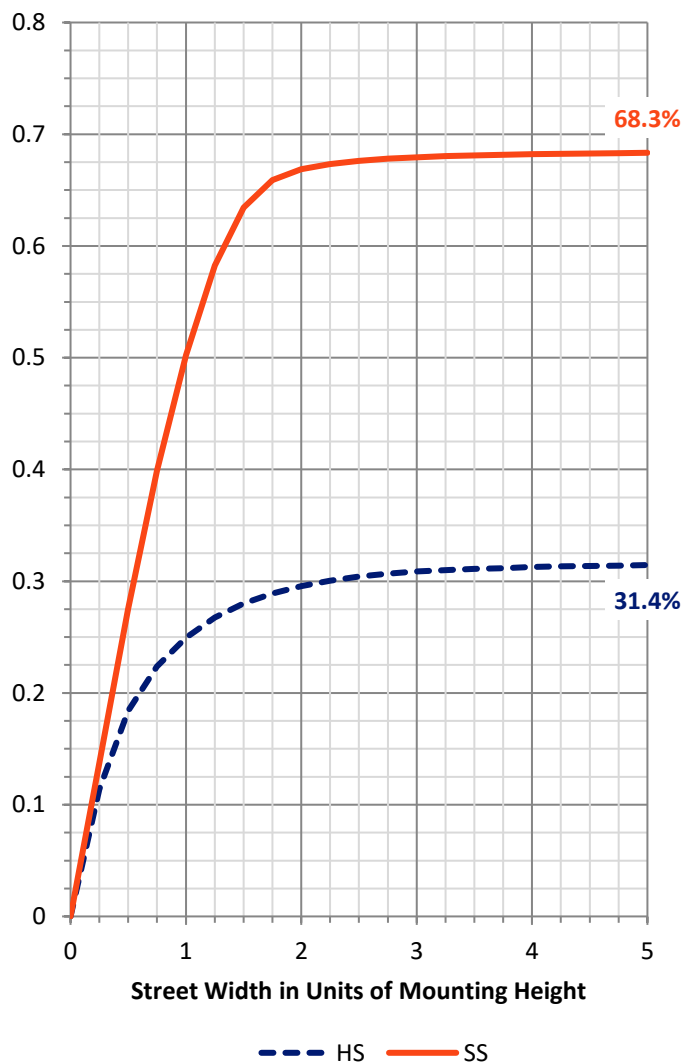
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3090.0	0.0	3090.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6661.0	0.0	6661.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	9751.0	0.0	9751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	2.0
10°-20°	602.0	6.2
20°-30°	1064.2	10.9
30°-40°	1598.4	16.4
40°-50°	2193.7	22.5
50°-60°	2613.5	26.8
60°-70°	1118.4	11.5
70°-80°	316.5	3.2
80°-90°	53.3	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°	9751.0	100.0
0°-180°	9751.0	100.0

Coefficient of Utilization



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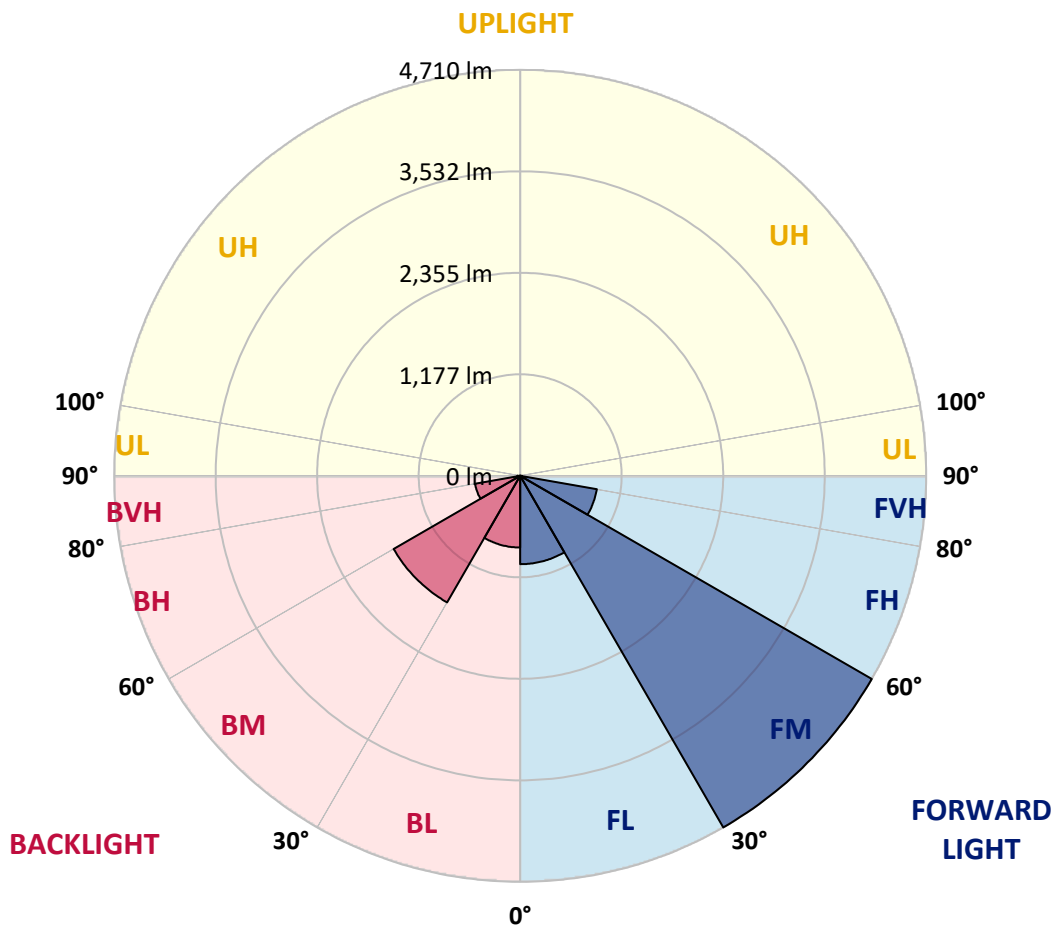
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.2	10.5			
FM (30°-60°)	4710.0	48.3			
FH (60°-80°)	903.3	9.3			G1/1800
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	831.9	8.5	B2/1000		
BM (30°-60°)	1695.7	17.4	B2/2500		
BH (60°-80°)	531.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7
2.5°	1951.2	1947.5	1945.0	1964.9	1957.4	1958.7	1951.2	1958.7	1963.7	1952.5	1968.6
5°	1947.5	1958.7	1948.7	1954.9	1971.1	1966.1	1971.1	1986.0	1982.3	1978.6	1973.6
7.5°	1982.3	1983.6	1991.0	1993.5	1998.5	1993.5	2001.0	2014.6	2010.9	1989.8	1992.3
10°	2032.1	2034.5	2035.8	2049.5	2058.2	2059.4	2050.7	2038.3	2037.0	2065.6	2045.7
12.5°	2089.3	2083.0	2098.0	2102.9	2112.9	2124.1	2135.3	2109.2	2125.3	2126.6	2102.9
15°	2172.6	2178.8	2161.4	2161.4	2165.1	2166.4	2197.5	2185.0	2182.5	2168.8	2178.8
17.5°	2296.9	2254.7	2253.4	2236.0	2233.5	2243.5	2254.7	2264.6	2298.2	2270.8	2217.3
20°	2387.7	2397.7	2361.6	2340.5	2344.2	2366.6	2355.4	2400.2	2423.8	2379.0	2326.8
22.5°	2548.1	2514.6	2523.3	2476.0	2479.8	2503.4	2502.1	2548.1	2561.8	2490.9	2415.1
25°	2656.3	2647.6	2655.1	2617.8	2622.8	2641.4	2671.3	2747.1	2724.7	2646.4	2471.0
27.5°	2814.3	2796.9	2790.7	2777.0	2772.0	2821.7	2856.6	2937.4	2921.2	2806.8	2570.5
30°	2975.9	2964.8	2971.0	2915.0	2934.9	3040.6	3050.6	3161.2	3153.8	2952.3	2681.2
32.5°	3087.9	3094.1	3105.3	3074.2	3162.5	3247.1	3280.6	3406.2	3412.5	3202.3	2895.1
35°	3268.2	3247.1	3253.3	3289.3	3330.4	3484.6	3539.3	3622.6	3674.9	3464.7	3100.3
37.5°	3381.4	3403.7	3377.6	3434.8	3541.8	3727.1	3776.8	3862.6	3917.4	3723.4	3380.1
40°	3558.0	3521.9	3540.5	3581.6	3691.0	3932.3	3918.6	4006.9	4024.3	3943.5	3641.3
42.5°	3748.2	3730.8	3704.7	3798.0	3890.0	4065.3	4092.7	4051.7	4140.0	4158.6	4014.4
45°	3975.8	3997.0	4000.7	4003.2	4084.0	4237.0	4199.7	4163.6	4265.6	4401.1	4245.7
47.5°	4187.2	4120.1	4168.6	4235.7	4350.1	4351.4	4394.9	4309.1	4417.3	4537.9	4454.6
50°	4258.1	4225.8	4290.4	4417.3	4593.9	4612.5	4617.5	4495.6	4551.6	4647.4	4526.7
52.5°	4230.7	4219.6	4385.0	4581.4	4840.1	4934.6	4959.5	4809.0	4840.1	4796.6	4685.9
55°	4100.2	4133.7	4300.4	4700.8	5097.5	5389.8	5437.0	5246.8	5049.0	5082.6	4960.7
56°	3921.1	3862.6	4049.2	4565.3	5086.3	5537.8	5576.3	5338.8	5204.5	5161.0	4958.3
57.5°	3326.6	3250.8	3495.8	4107.6	4804.1	5481.8	5510.4	5377.4	5178.4	5090.1	4596.4
60°	1947.5	1984.8	2295.7	2832.9	3705.9	4494.4	4590.2	4687.2	4554.1	4158.6	3421.2
62.5°	940.2	916.5	1139.1	1624.1	2258.4	2869.0	2840.4	3112.7	3262.0	2954.8	2160.1
65°	492.5	490.0	621.8	886.7	1241.1	1507.3	1533.4	1680.1	1885.3	1522.2	1096.9
67.5°	361.9	371.8	437.7	623.0	798.4	814.6	810.8	884.2	904.1	764.8	674.0
70°	283.5	288.5	337.0	473.8	594.4	532.3	521.1	529.8	588.2	613.1	583.3
72.5°	205.2	210.2	251.2	319.6	371.8	363.1	370.6	419.1	491.2	517.3	486.2
75°	136.8	140.5	162.9	195.2	220.1	237.5	251.2	307.2	374.3	389.2	374.3
77.5°	94.5	98.2	113.2	138.0	140.5	151.7	156.7	182.8	223.8	242.5	232.6
80°	53.5	53.5	60.9	70.9	87.1	102.0	104.5	125.6	144.3	156.7	159.2
82.5°	24.9	26.1	32.3	43.5	57.2	70.9	73.4	87.1	100.7	113.2	116.9
85°	12.4	13.7	18.7	26.1	34.8	42.3	41.0	42.3	44.8	42.3	43.5
87.5°	3.7	3.7	5.0	6.2	5.0	6.2	6.2	7.5	8.7	9.9	11.2
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°	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7	1958.7
2.5°	1969.9	1973.6	1948.7	1972.4	1963.7	1962.4	1979.8	1977.3	1983.6	1981.1	1966.1
5°	1971.1	1962.4	1988.5	1964.9	1976.1	1999.7	1983.6	2020.9	2002.2	2014.6	1987.3
7.5°	2009.7	2012.2	2007.2	2017.1	2012.2	2023.3	2014.6	2023.3	2008.4	2009.7	2034.5
10°	2043.2	2035.8	2044.5	2032.1	2040.8	2037.0	2017.1	2010.9	2015.9	2009.7	2025.8
12.5°	2105.4	2091.7	2085.5	2070.6	2060.7	2023.3	1992.3	1974.8	1998.5	2002.2	1994.7
15°	2168.8	2170.1	2141.5	2107.9	2045.7	1989.8	1997.2	2003.4	2003.4	2013.4	1994.7
17.5°	2208.6	2208.6	2182.5	2115.4	2052.0	2019.6	2012.2	1992.3	1974.8	1972.4	1971.1
20°	2278.3	2257.1	2197.5	2114.1	2049.5	2034.5	1978.6	1931.3	1895.3	1882.8	1881.6
22.5°	2357.9	2304.4	2221.1	2116.6	2045.7	2024.6	1920.1	1849.2	1784.6	1757.2	1760.9
25°	2431.2	2345.4	2234.8	2105.4	2032.1	1930.1	1813.2	1714.9	1647.8	1625.4	1614.2
27.5°	2482.2	2389.0	2234.8	2115.4	1981.1	1824.4	1705.0	1579.4	1520.9	1506.0	1508.5
30°	2550.6	2443.7	2273.3	2094.2	1879.1	1687.6	1544.6	1462.5	1427.7	1415.2	1423.9
32.5°	2711.1	2586.7	2326.8	2043.2	1758.5	1550.8	1435.1	1389.1	1338.1	1313.2	1304.5
35°	2885.2	2722.3	2379.0	1957.4	1622.9	1426.4	1354.3	1312.0	1251.1	1223.7	1228.7
37.5°	3131.4	2896.4	2382.7	1815.7	1476.2	1356.8	1290.9	1225.0	1175.2	1132.9	1120.5
40°	3463.4	3133.9	2374.0	1666.4	1358.0	1274.7	1226.2	1144.1	1088.2	1058.3	1064.5
42.5°	3755.7	3412.5	2338.0	1497.3	1251.1	1218.7	1164.0	1083.2	1028.5	997.4	994.9
45°	4001.9	3617.7	2269.6	1353.0	1161.5	1156.6	1093.1	1030.9	987.4	958.8	971.3
47.5°	4229.5	3783.0	2166.4	1208.8	1079.5	1089.4	1028.5	989.9	962.6	936.4	935.2
50°	4311.6	3780.6	2075.6	1089.4	1013.5	1008.6	1006.1	965.0	936.4	914.1	924.0
52.5°	4448.4	3822.8	1977.3	1007.3	953.8	955.1	963.8	933.9	901.6	887.9	900.4
55°	4644.9	3829.1	1760.9	911.6	904.1	912.8	912.8	892.9	865.5	854.4	848.1
56°	4484.4	3643.8	1579.4	886.7	879.2	879.2	902.9	880.5	846.9	838.2	830.7
57.5°	4136.2	3192.3	1322.0	856.8	845.7	863.1	875.5	851.9	820.8	808.3	815.8
60°	2852.8	2160.1	993.6	792.2	792.2	820.8	830.7	795.9	782.2	781.0	771.0
62.5°	1665.2	1258.5	777.3	733.7	736.2	759.8	767.3	747.4	730.0	751.1	761.1
65°	883.0	751.1	666.6	671.5	672.8	691.4	723.8	722.5	721.3	727.5	728.8
67.5°	639.2	624.3	605.6	600.7	603.1	616.8	649.2	674.0	672.8	657.9	646.7
70°	569.6	548.4	537.2	538.5	528.5	544.7	570.8	587.0	558.4	541.0	533.5
72.5°	473.8	467.6	460.1	461.4	441.5	437.7	407.9	407.9	400.4	395.5	404.2
75°	361.9	359.4	363.1	356.9	335.8	313.4	296.0	279.8	254.9	245.0	240.0
77.5°	228.8	236.3	245.0	231.3	222.6	206.4	189.0	172.9	153.0	141.8	141.8
80°	155.5	161.7	167.9	165.4	155.5	140.5	126.8	109.4	95.8	87.1	85.8
82.5°	118.1	123.1	131.8	121.9	111.9	99.5	88.3	75.9	63.4	53.5	53.5
85°	42.3	48.5	53.5	58.4	62.2	63.4	54.7	44.8	36.1	28.6	27.4
87.5°	11.2	12.4	13.7	12.4	12.4	12.4	13.7	12.4	11.2	8.7	8.7
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)