

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: P527232

Luminaire Tested: **GALN-SA2B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8354 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

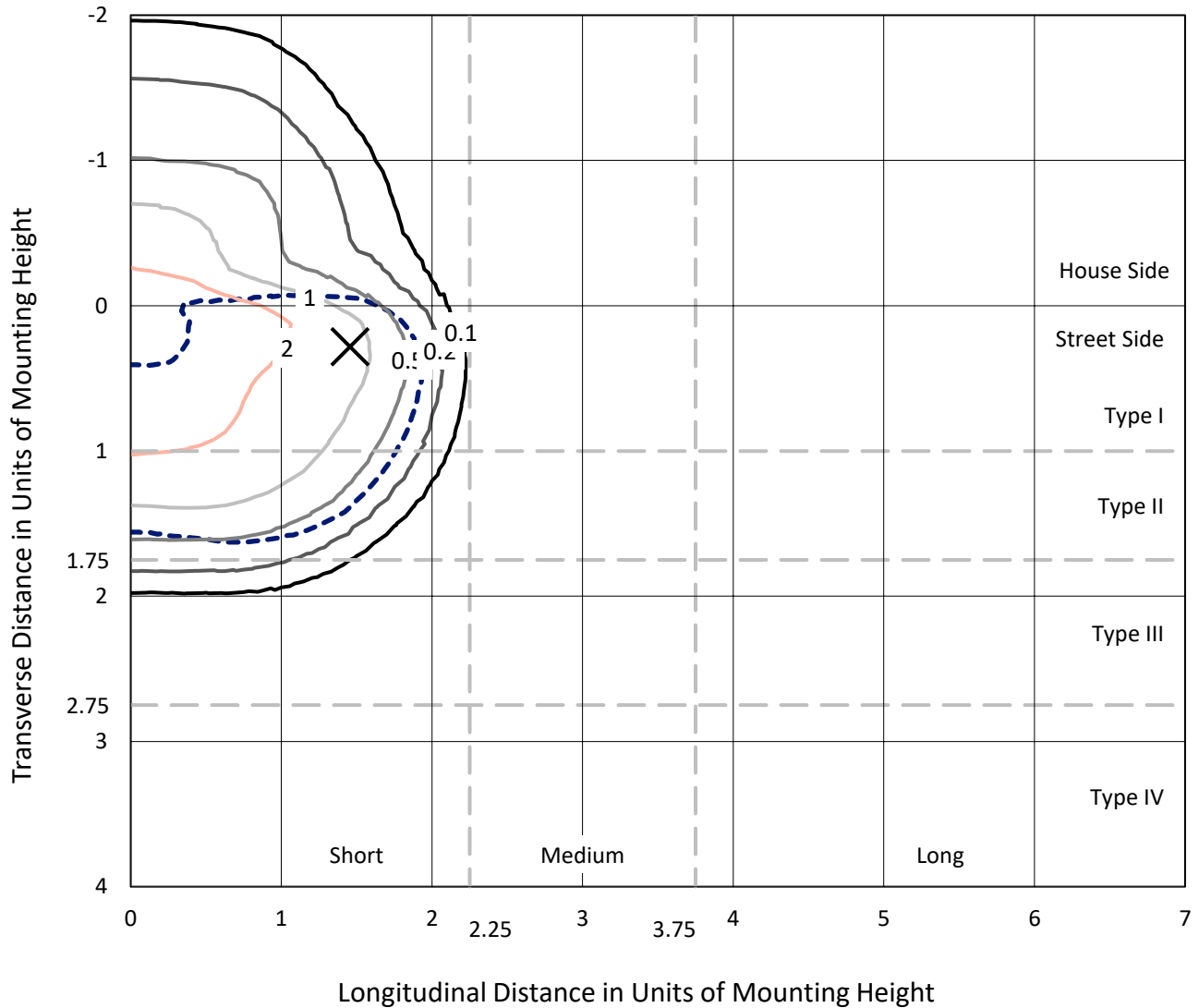
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

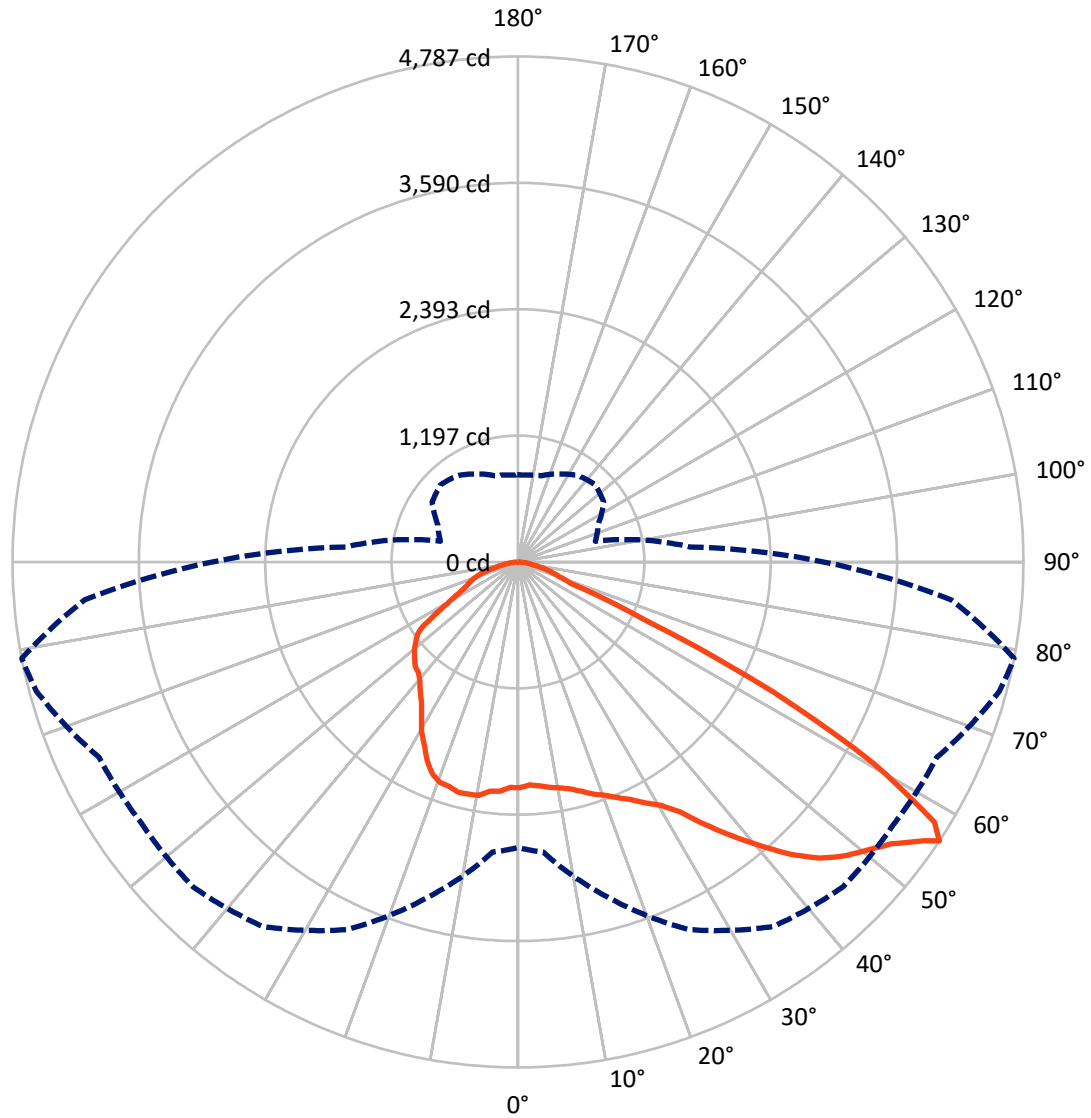
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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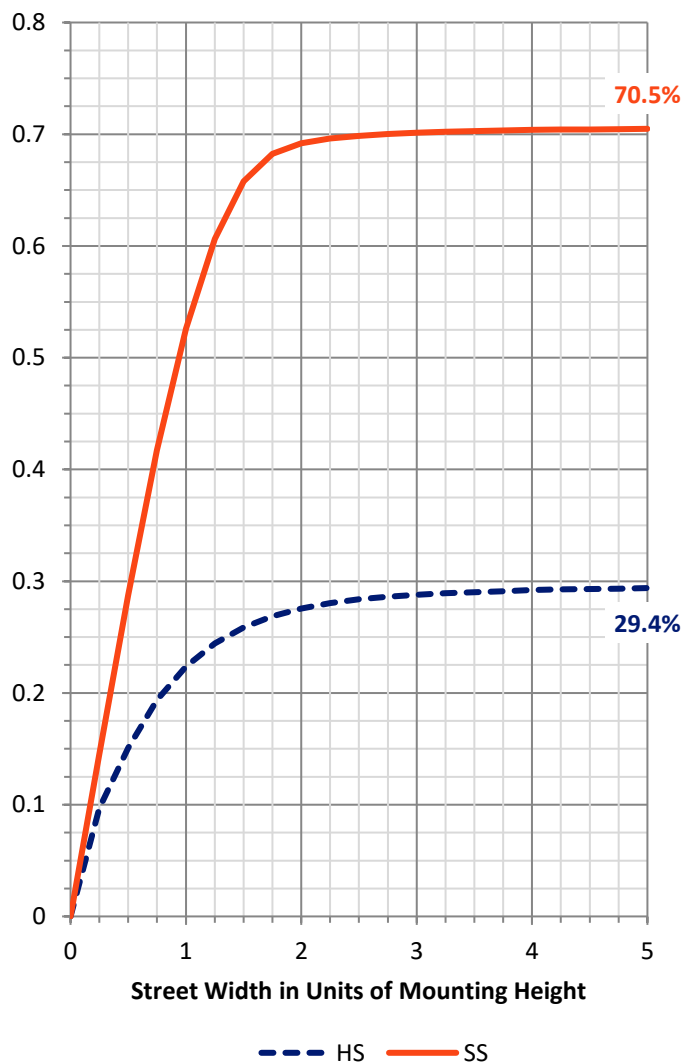
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.1	0.0	2467.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5886.9	0.0	5886.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	8354.0	0.0	8354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	2.3
10°-20°	531.8	6.4
20°-30°	909.9	10.9
30°-40°	1394.5	16.7
40°-50°	1884.7	22.6
50°-60°	2164.6	25.9
60°-70°	986.7	11.8
70°-80°	243.3	2.9
80°-90°	44.2	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°	8354.0	100.0
0°-180°	8354.0	100.0

Coefficient of Utilization



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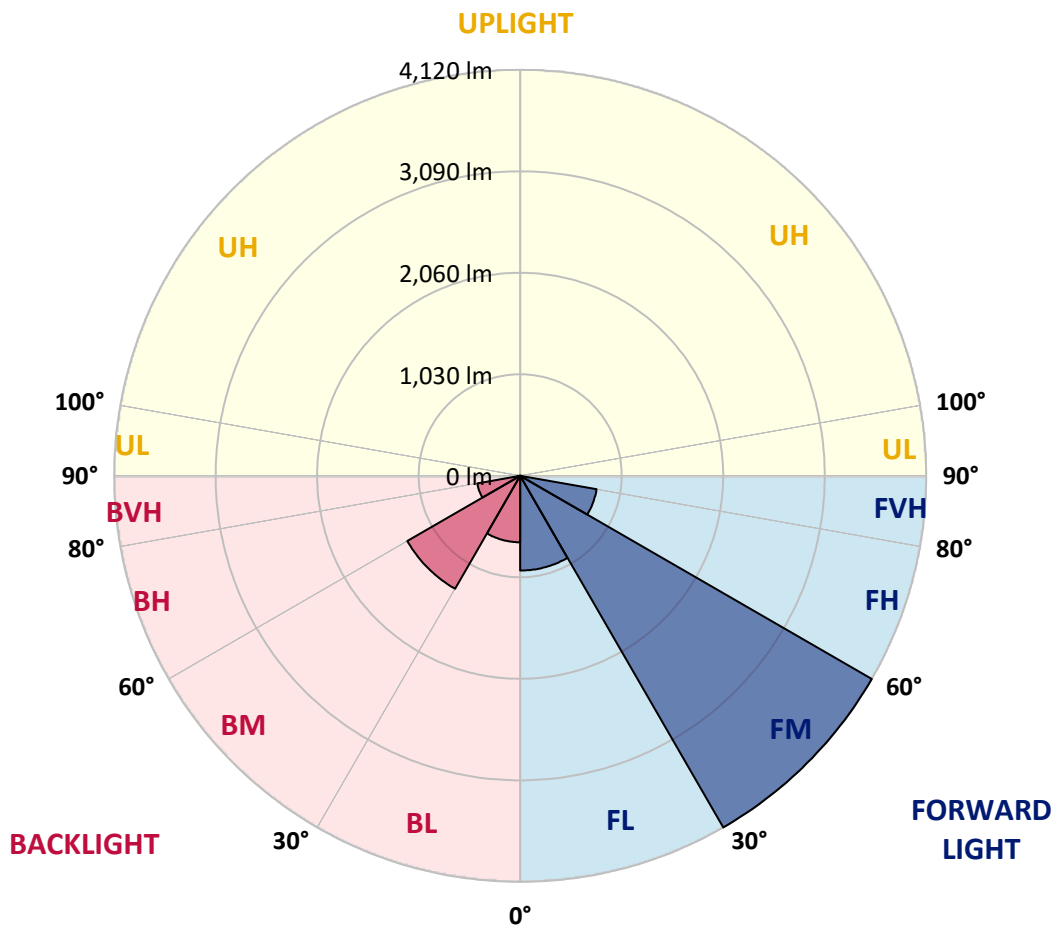
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.2	11.5			
FM (30°-60°)	4120.4	49.3			
FH (60°-80°)	787.6	9.4			G1/1800
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	674.9	8.1	B2/1000		
BM (30°-60°)	1323.3	15.8	B2/2500		
BH (60°-80°)	442.4	5.3	B1/500		G1/500
BVH (80°-90°)	26.6	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°	79°	85°
0°	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5
2.5°	2033.4	2028.2	2040.7	2050.0	2061.5	2076.1	2083.3	2087.5	2123.9	2114.6	2142.7
5°	1989.7	1976.2	1985.5	1992.8	2012.6	2030.3	2050.0	2081.3	2114.6	2129.1	2163.5
7.5°	1951.2	1943.9	1941.8	1947.0	1974.1	1997.0	2031.3	2077.1	2131.2	2155.1	2174.9
10°	1887.7	1877.3	1892.9	1927.3	1934.5	1982.4	2021.9	2087.5	2134.3	2176.0	2234.2
12.5°	1859.6	1849.2	1852.3	1872.1	1923.1	1968.9	2015.7	2089.6	2188.4	2205.1	2283.1
15°	1904.4	1893.9	1897.1	1891.9	1940.8	1964.7	2038.6	2131.2	2225.9	2254.0	2337.3
17.5°	2006.3	2007.4	1993.9	1982.4	1971.0	2021.9	2072.9	2156.2	2240.5	2311.2	2373.7
20°	2200.9	2166.6	2139.5	2075.0	2057.3	2079.2	2143.7	2223.8	2299.8	2358.1	2428.8
22.5°	2350.8	2353.9	2315.4	2209.3	2170.8	2180.1	2235.3	2300.8	2384.1	2425.7	2506.9
25°	2568.3	2546.4	2504.8	2420.5	2334.1	2341.4	2382.0	2441.3	2464.2	2493.4	2581.8
27.5°	2767.0	2773.3	2691.1	2612.0	2504.8	2484.0	2556.8	2567.2	2528.7	2583.9	2614.1
30°	2968.9	2963.7	2909.6	2817.0	2711.9	2716.0	2748.3	2697.3	2644.2	2674.4	2695.2
32.5°	3178.1	3118.8	3116.7	3033.4	2953.3	2914.8	2875.3	2900.2	2818.0	2824.3	2804.5
35°	3345.6	3354.0	3306.1	3246.8	3207.2	3139.6	3031.4	3076.1	3060.5	3053.2	2967.9
37.5°	3467.4	3435.1	3459.1	3439.3	3401.8	3317.5	3205.1	3247.8	3255.1	3290.5	3191.6
40°	3567.3	3553.8	3617.2	3627.6	3601.6	3419.5	3217.6	3344.6	3453.9	3530.9	3413.3
42.5°	3615.2	3644.3	3710.9	3791.0	3732.7	3538.1	3282.2	3418.5	3662.0	3783.7	3623.5
45°	3679.7	3642.2	3741.1	3887.8	3888.8	3638.0	3344.6	3518.4	3824.3	4001.2	3767.1
47.5°	3614.1	3632.8	3734.8	3921.1	3969.0	3743.2	3513.2	3659.9	4003.3	4160.4	3900.3
50°	3467.4	3504.8	3691.1	3884.7	4029.3	3854.5	3706.7	3812.9	4168.8	4288.4	3922.1
52.5°	3314.4	3335.2	3626.6	3912.8	4056.4	3998.1	3965.8	4024.1	4370.7	4433.1	3949.2
55°	2898.2	2997.0	3413.3	3900.3	4188.5	4257.2	4232.2	4317.6	4599.6	4662.0	4097.0
56°	2705.6	2757.7	3285.3	3842.0	4214.6	4351.9	4339.4	4377.9	4721.3	4786.9	4119.9
57.5°	2349.7	2353.9	2801.4	3583.9	4116.7	4380.0	4367.5	4397.7	4697.4	4652.7	3919.0
60°	1470.4	1534.9	1906.4	2756.6	3500.7	4063.7	4134.4	3892.0	3960.6	3865.9	3049.1
62.5°	761.7	752.4	999.0	1611.9	2323.7	2909.6	2975.2	2963.7	2857.6	2719.2	1991.8
65°	379.8	381.9	522.4	798.2	1190.5	1523.5	1706.6	1726.4	1444.4	1328.9	944.9
67.5°	275.8	286.2	375.7	488.1	560.9	627.5	769.0	754.5	571.3	543.2	503.7
70°	214.4	223.7	304.9	372.5	338.2	338.2	368.4	380.9	406.9	418.3	431.9
72.5°	156.1	163.4	233.1	257.0	221.7	238.3	275.8	304.9	332.0	336.1	351.7
75°	107.2	113.4	153.0	141.5	133.2	164.4	201.9	228.9	248.7	259.1	268.5
77.5°	69.7	71.8	87.4	73.9	85.3	106.1	131.1	154.0	173.8	182.1	184.2
80°	31.2	34.3	37.5	46.8	59.3	76.0	93.7	112.4	124.9	128.0	134.2
82.5°	17.7	17.7	22.9	33.3	43.7	55.2	67.6	81.2	95.7	98.9	97.8
85°	9.4	9.4	13.5	19.8	27.1	32.3	31.2	32.3	34.3	39.5	38.5
87.5°	3.1	3.1	4.2	4.2	5.2	6.2	5.2	7.3	9.4	9.4	9.4
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°	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5	2137.5
2.5°	2134.3	2143.7	2131.2	2158.3	2158.3	2153.1	2127.1	2135.4	2141.6	2141.6	2146.8
5°	2174.9	2171.8	2180.1	2147.9	2128.1	2120.8	2078.1	2057.3	2039.6	2038.6	2023.0
7.5°	2197.8	2189.5	2186.4	2162.4	2075.0	2021.9	1930.4	1877.3	1865.9	1825.3	1840.9
10°	2234.2	2249.8	2234.2	2104.2	1982.4	1860.6	1771.2	1688.9	1656.7	1630.7	1615.1
12.5°	2309.2	2301.9	2211.3	2035.5	1864.8	1720.2	1587.0	1500.6	1468.3	1445.4	1443.4
15°	2372.6	2336.2	2197.8	1927.3	1681.7	1527.6	1418.4	1357.0	1342.4	1344.5	1353.9
17.5°	2394.5	2369.5	2127.1	1814.9	1545.3	1364.3	1313.3	1303.9	1317.4	1333.0	1337.2
20°	2428.8	2389.3	2097.9	1661.9	1376.8	1262.3	1259.2	1292.5	1317.4	1340.3	1343.5
22.5°	2500.6	2400.7	2003.2	1517.2	1261.2	1232.1	1262.3	1290.4	1328.9	1347.6	1331.0
25°	2521.5	2375.8	1870.0	1343.5	1188.4	1213.4	1245.6	1284.1	1311.2	1321.6	1328.9
27.5°	2539.1	2337.3	1690.0	1227.9	1165.5	1212.3	1245.6	1277.9	1292.5	1301.8	1310.2
30°	2589.1	2325.8	1533.9	1150.9	1150.9	1191.5	1234.2	1242.5	1262.3	1273.7	1288.3
32.5°	2614.1	2246.7	1373.6	1102.0	1136.4	1201.9	1205.1	1220.7	1221.7	1231.1	1215.5
35°	2679.6	2190.5	1224.8	1066.6	1142.6	1191.5	1207.1	1197.8	1146.8	1121.8	1127.0
37.5°	2727.5	2162.4	1117.6	1062.5	1143.7	1203.0	1211.3	1140.5	1087.5	1045.8	1056.2
40°	2856.5	2092.7	1036.5	1055.2	1153.0	1215.5	1192.6	1115.6	1019.8	977.2	969.9
42.5°	2955.4	2042.8	985.5	1046.9	1160.3	1233.1	1183.2	1065.6	967.8	928.2	938.6
45°	3069.9	2031.3	958.4	1049.0	1172.8	1242.5	1171.8	1027.1	923.0	907.4	904.3
47.5°	3110.4	1949.1	929.3	1031.3	1169.7	1239.4	1133.2	998.0	906.4	908.5	916.8
50°	3042.8	1864.8	907.4	994.8	1148.9	1211.3	1072.9	959.5	897.0	923.0	937.6
52.5°	2956.4	1778.4	862.7	945.9	1106.2	1167.6	1044.8	957.4	887.7	879.3	882.5
55°	2982.5	1707.7	800.2	879.3	1037.5	1086.4	1013.6	937.6	864.8	833.5	844.0
56°	2898.2	1634.8	759.7	837.7	990.7	1034.4	998.0	919.9	846.0	825.2	825.2
57.5°	2659.9	1390.3	706.6	771.1	891.8	943.9	967.8	909.5	825.2	788.8	789.8
60°	1961.6	988.6	633.7	679.5	738.8	780.5	891.8	880.4	773.2	748.2	738.8
62.5°	1209.2	722.2	581.7	599.4	629.6	663.9	778.4	797.1	718.0	691.0	684.7
65°	677.5	552.6	542.2	549.5	564.0	581.7	646.2	687.9	633.7	592.1	590.0
67.5°	495.3	494.3	502.6	508.9	515.1	515.1	530.7	547.4	540.1	506.8	503.7
70°	440.2	443.3	449.6	450.6	452.7	445.4	432.9	427.7	436.0	415.2	411.0
72.5°	363.2	373.6	380.9	381.9	370.5	361.1	344.4	326.8	320.5	316.4	315.3
75°	278.9	286.2	289.3	288.3	284.1	270.6	250.8	233.1	221.7	209.2	215.4
77.5°	188.4	198.8	204.0	204.0	197.7	176.9	167.5	154.0	142.6	129.0	131.1
80°	132.2	139.4	147.8	146.7	136.3	125.9	112.4	99.9	90.5	80.1	79.1
82.5°	98.9	103.0	107.2	105.1	97.8	87.4	78.0	66.6	56.2	48.9	48.9
85°	35.4	38.5	46.8	48.9	53.1	53.1	44.7	37.5	30.2	25.0	25.0
87.5°	10.4	10.4	11.4	11.4	10.4	11.4	9.4	10.4	11.4	7.3	7.3
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)