

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: P529025

Luminaire Tested: **GALN-SA4A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8088 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

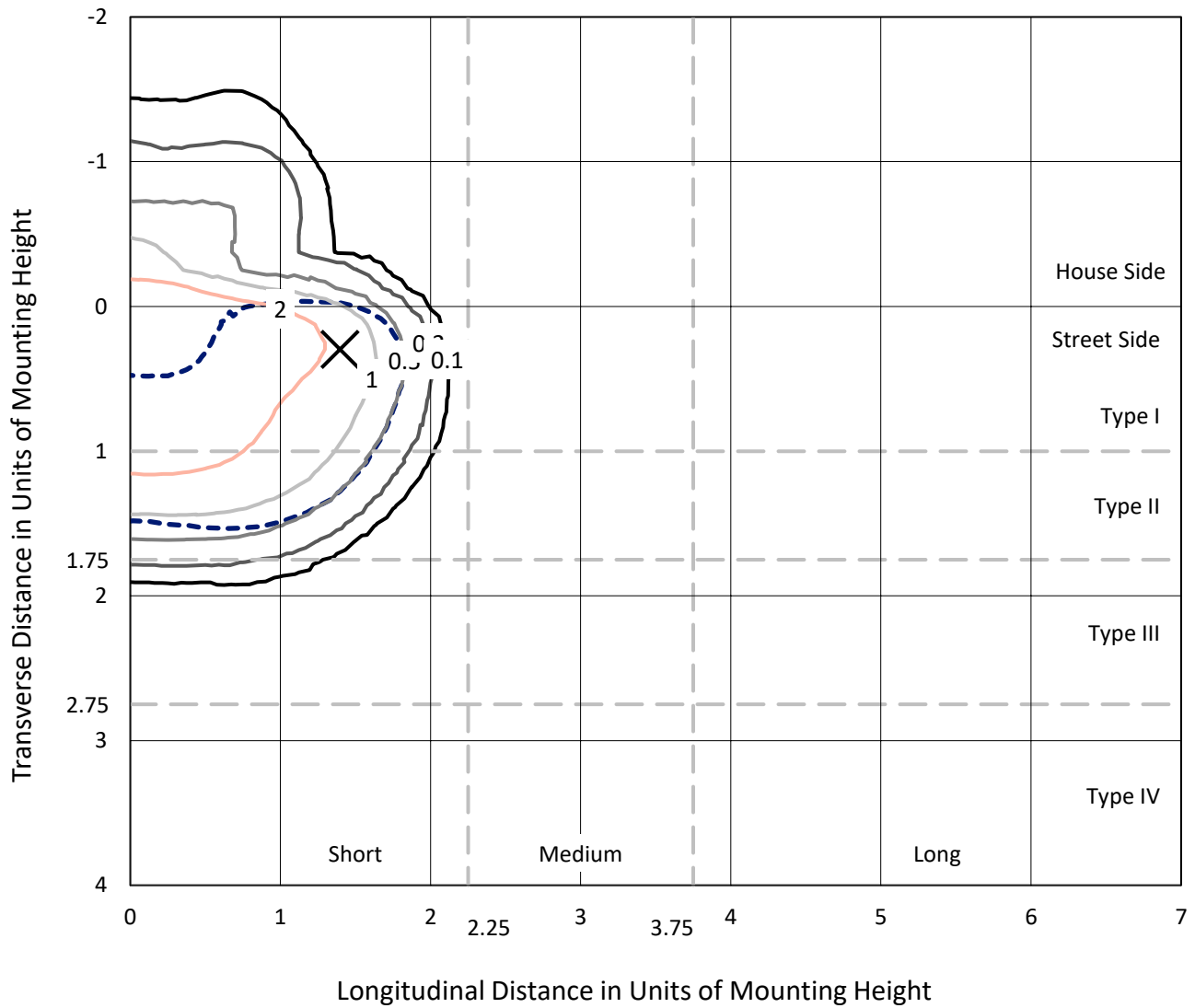
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

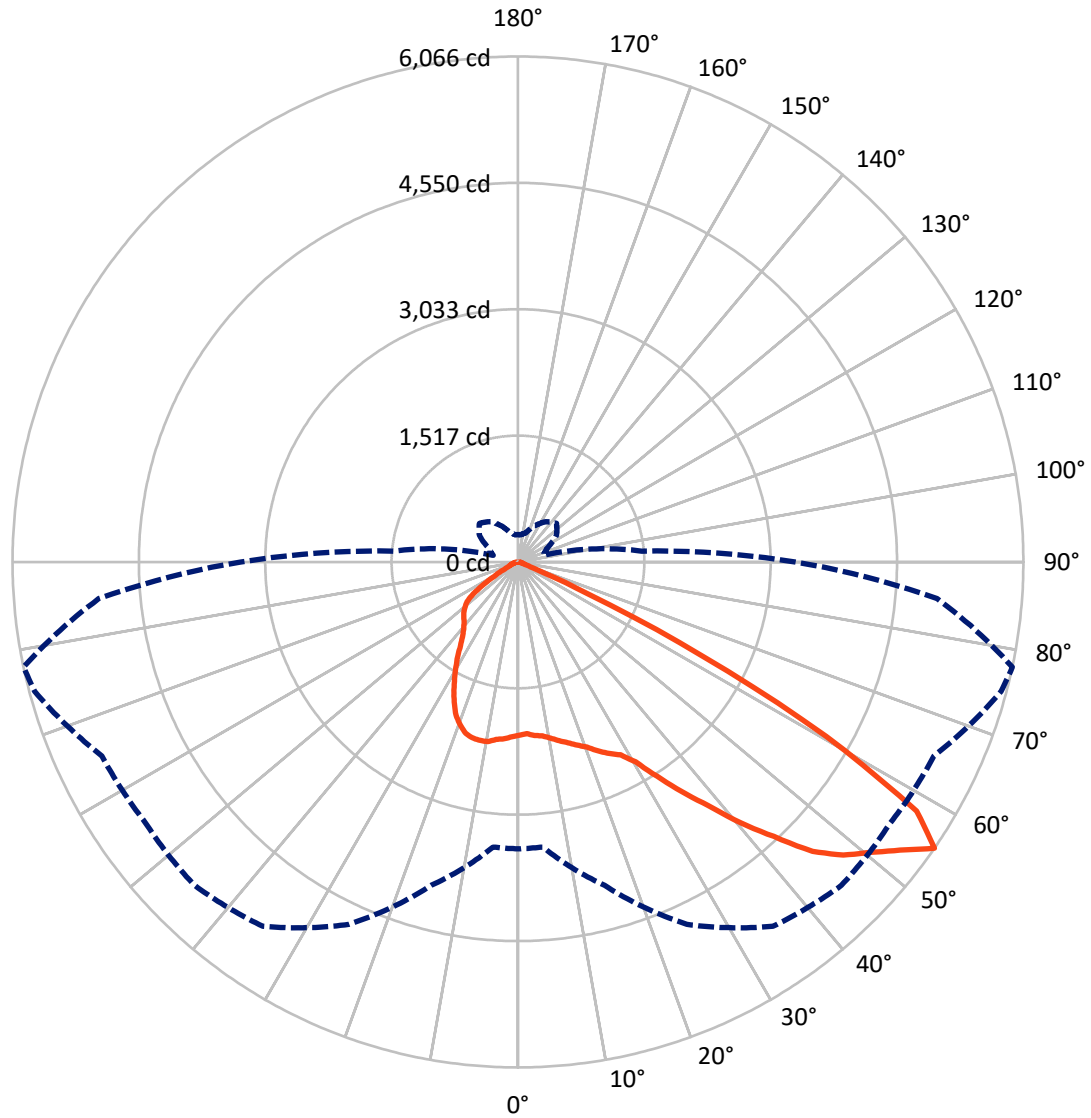
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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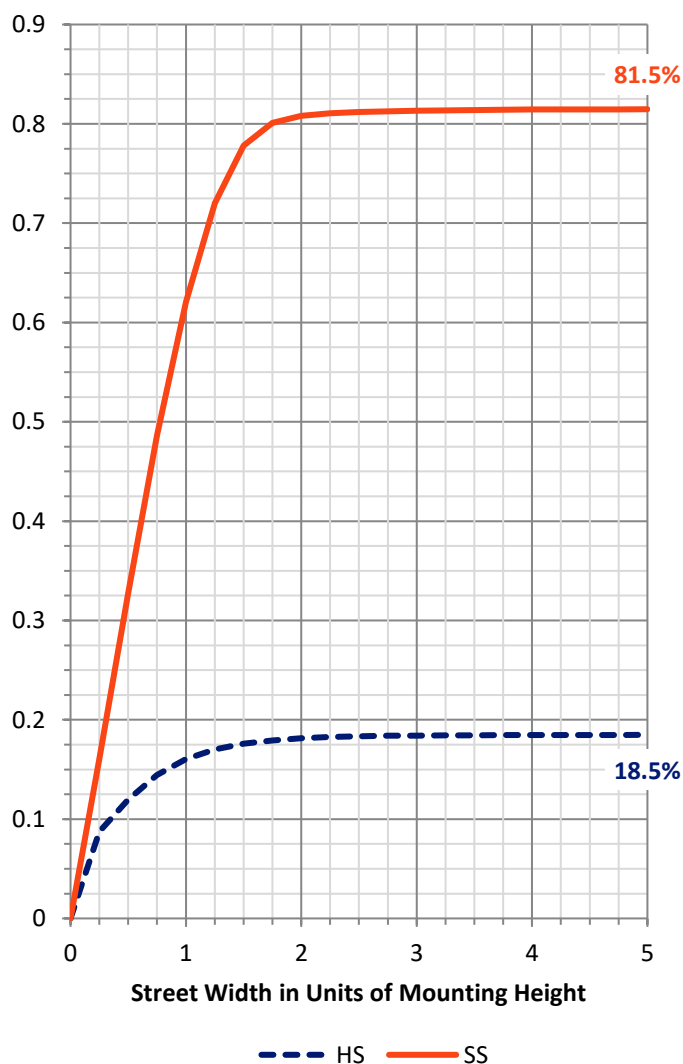
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.2	0.0	1502.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6585.7	0.0	6585.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	8088.0	0.0	8088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	2.3
10°-20°	490.7	6.1
20°-30°	860.1	10.6
30°-40°	1418.3	17.5
40°-50°	2063.7	25.5
50°-60°	2338.4	28.9
60°-70°	668.6	8.3
70°-80°	51.9	0.6
80°-90°	10.8	0.1
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°	8088.0	100.0
0°-180°	8088.0	100.0

Coefficient of Utilization



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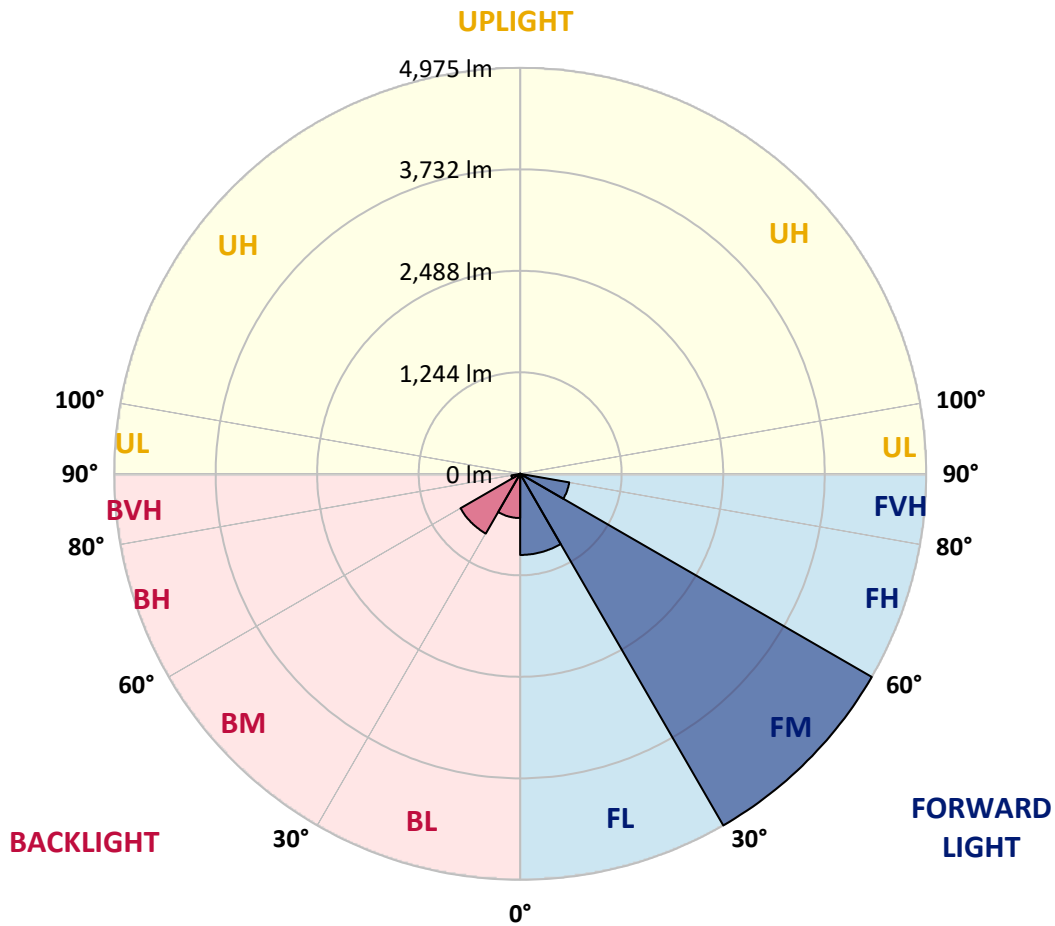
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.2	12.3			
FM (30°-60°)	4975.4	61.5			
FH (60°-80°)	610.9	7.6			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	542.0	6.7	B2/1000		
BM (30°-60°)	845.0	10.4	B1/1000		
BH (60°-80°)	109.7	1.4	B0/110		G0/110
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4
2.5°	1955.1	1973.9	1976.8	1999.9	1998.5	2037.5	2049.1	2050.5	2076.5	2063.5	2096.8
5°	1900.1	1890.0	1885.7	1926.1	1937.7	1972.4	2001.3	2018.7	2072.2	2091.0	2125.7
7.5°	1851.0	1851.0	1853.8	1890.0	1885.7	1930.5	1960.9	2014.4	2092.4	2108.4	2150.3
10°	1803.2	1785.9	1807.6	1845.2	1877.0	1897.2	1960.9	2011.5	2102.6	2148.8	2206.7
12.5°	1778.6	1787.3	1790.2	1817.7	1852.4	1913.1	1947.8	2031.7	2174.9	2202.3	2264.5
15°	1933.4	1916.0	1874.1	1849.5	1878.4	1907.3	1994.1	2079.4	2212.5	2251.5	2320.9
17.5°	2112.7	2098.2	2063.5	1997.0	1931.9	1985.4	2053.4	2131.5	2253.0	2310.8	2413.5
20°	2347.0	2323.8	2289.1	2159.0	2102.6	2044.7	2117.0	2209.6	2319.5	2371.5	2477.1
22.5°	2626.0	2626.0	2548.0	2390.3	2273.2	2218.3	2248.6	2302.1	2393.2	2464.1	2568.2
25°	2916.7	2908.0	2837.2	2673.8	2475.6	2410.6	2445.3	2482.9	2507.5	2546.5	2615.9
27.5°	3249.3	3198.7	3109.0	2928.3	2753.3	2627.5	2665.1	2631.8	2601.5	2621.7	2721.5
30°	3474.9	3506.7	3392.4	3218.9	3054.1	2913.8	2921.0	2892.1	2753.3	2782.2	2841.5
32.5°	3709.1	3729.4	3665.8	3570.3	3405.5	3242.1	3182.8	3158.2	3054.1	3067.1	3009.2
35°	3904.4	3943.4	3887.0	3845.1	3797.3	3665.8	3502.3	3581.9	3414.1	3382.3	3231.9
37.5°	4083.7	4072.1	4138.6	4095.2	4085.1	3992.6	3813.3	3829.2	3716.4	3709.1	3535.6
40°	4244.2	4247.1	4338.2	4358.4	4317.9	4153.1	3892.8	4018.6	4109.7	4118.4	3895.7
42.5°	4377.2	4416.3	4494.3	4657.7	4597.0	4322.3	3975.2	4112.6	4451.0	4504.5	4236.9
45°	4492.9	4572.4	4669.3	4815.4	4780.7	4562.3	4180.5	4306.4	4815.4	4955.6	4558.0
47.5°	4500.1	4604.2	4709.8	4926.7	4970.1	4691.0	4393.1	4612.9	5104.6	5256.4	4792.2
50°	4471.2	4526.2	4737.3	4973.0	5071.3	4900.7	4691.0	4870.3	5385.1	5480.6	4910.8
52.5°	4128.5	4170.4	4594.1	5016.4	5253.5	5137.8	5085.8	5228.9	5671.4	5742.3	5022.2
55°	3441.6	3434.4	4017.1	4798.0	5337.4	5489.2	5457.4	5508.0	6002.6	6066.2	5049.6
57.5°	2354.2	2485.8	2989.0	3995.5	4824.0	5406.8	5440.1	5356.2	5616.5	5641.1	4401.8
60°	1269.6	1324.6	1729.5	2666.5	3673.0	4406.1	4492.9	4341.1	4320.8	4251.4	3142.3
62.5°	504.7	532.1	762.1	1320.2	2001.3	2678.1	2864.6	2802.5	2669.4	2487.2	1626.8
65°	240.0	257.4	378.9	617.5	887.9	1116.4	1302.9	1360.7	1003.6	903.8	536.5
67.5°	163.4	176.4	276.2	352.8	316.7	331.1	430.9	400.6	235.7	201.0	148.9
70°	124.4	133.0	221.2	240.0	141.7	99.8	111.3	104.1	96.9	98.3	96.9
72.5°	88.2	95.4	162.0	141.7	62.2	46.3	59.3	70.9	70.9	70.9	69.4
75°	53.5	60.7	94.0	55.0	24.6	24.6	37.6	47.7	50.6	52.1	49.2
77.5°	27.5	34.7	31.8	15.9	15.9	18.8	27.5	33.3	36.2	36.2	34.7
80°	5.8	5.8	5.8	8.7	15.9	20.2	27.5	30.4	34.7	34.7	31.8
82.5°	0.0	1.4	4.3	8.7	14.5	18.8	26.0	30.4	34.7	36.2	33.3
85°	0.0	1.4	2.9	5.8	10.1	11.6	10.1	8.7	8.7	8.7	8.7
87.5°	0.0	0.0	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4	2079.4
2.5°	2099.7	2104.0	2096.8	2095.3	2089.6	2106.9	2065.0	2054.8	2080.9	2056.3	2062.1
5°	2127.1	2137.3	2124.3	2102.6	2070.8	2021.6	1979.7	1924.7	1898.7	1879.9	1877.0
7.5°	2147.4	2154.6	2141.6	2072.2	1976.8	1852.4	1759.9	1691.9	1638.4	1622.5	1596.4
10°	2229.8	2231.3	2166.2	2012.9	1826.4	1663.0	1521.3	1417.1	1363.6	1330.4	1315.9
12.5°	2284.8	2281.9	2150.3	1895.8	1647.1	1430.2	1268.2	1142.4	1093.2	1077.3	1067.2
15°	2354.2	2338.3	2112.7	1775.8	1415.7	1181.4	1035.4	948.6	944.3	934.2	944.3
17.5°	2409.1	2364.3	2057.7	1557.4	1194.4	973.2	877.8	883.5	895.1	905.2	906.7
20°	2498.8	2406.2	1931.9	1366.5	989.1	834.4	832.9	859.0	887.9	899.4	911.0
22.5°	2566.8	2423.6	1797.4	1162.6	821.4	778.0	802.6	841.6	863.3	874.9	892.2
25°	2591.3	2375.9	1618.1	958.7	740.4	751.9	789.5	815.6	843.1	856.1	848.8
27.5°	2615.9	2351.3	1404.1	789.5	697.0	734.6	766.4	792.4	801.1	818.5	830.0
30°	2675.2	2266.0	1211.8	682.5	675.3	723.0	746.2	754.8	778.0	788.1	788.1
32.5°	2722.9	2232.7	1007.9	631.9	672.4	728.8	731.7	731.7	734.6	727.4	724.5
35°	2821.3	2118.5	825.7	601.6	671.0	730.3	737.5	712.9	646.4	620.4	613.1
37.5°	2942.7	2044.7	691.2	594.3	681.1	747.6	759.2	666.6	579.9	537.9	530.7
40°	3090.2	1992.7	603.0	591.4	704.2	788.1	753.4	630.5	517.7	457.0	454.1
42.5°	3262.3	1944.9	543.7	590.0	733.2	830.0	747.6	600.1	454.1	413.6	419.4
45°	3399.7	1918.9	503.2	579.9	743.3	854.6	751.9	546.6	428.0	402.0	404.9
47.5°	3506.7	1864.0	470.0	562.5	741.8	863.3	712.9	524.9	415.0	422.2	429.5
50°	3509.6	1790.2	428.0	524.9	720.1	847.4	668.1	504.7	412.1	442.5	457.0
52.5°	3470.5	1686.1	383.2	471.4	669.5	792.4	627.6	496.0	399.1	396.2	413.6
55°	3331.7	1490.9	308.0	381.8	565.4	653.6	591.4	480.1	360.1	326.8	329.7
57.5°	2692.6	1068.6	227.0	273.3	400.6	478.6	533.6	472.9	323.9	277.6	279.1
60°	1667.3	605.9	166.3	186.5	247.3	290.7	432.4	439.6	289.2	234.3	231.4
62.5°	856.1	299.3	128.7	131.6	151.8	170.6	296.4	368.7	261.7	222.7	222.7
65°	286.3	147.5	112.8	101.2	101.2	105.6	179.3	256.0	221.2	186.5	186.5
67.5°	122.9	109.9	98.3	88.2	81.0	76.6	101.2	148.9	164.9	141.7	135.9
70°	95.4	92.5	85.3	73.7	63.6	57.8	59.3	76.6	94.0	91.1	88.2
72.5°	70.9	70.9	68.0	57.8	49.2	41.9	39.0	40.5	44.8	46.3	47.7
75°	49.2	50.6	50.6	44.8	36.2	30.4	26.0	21.7	17.4	14.5	13.0
77.5°	33.3	34.7	37.6	33.3	27.5	20.2	15.9	11.6	7.2	2.9	2.9
80°	28.9	33.3	36.2	33.3	28.9	21.7	15.9	8.7	4.3	0.0	0.0
82.5°	30.4	33.3	37.6	31.8	27.5	20.2	15.9	10.1	4.3	1.4	0.0
85°	7.2	7.2	8.7	10.1	13.0	14.5	11.6	7.2	4.3	1.4	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	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)