

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: P647297

Luminaire Tested: **GALN-SA2D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647297
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-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 10384.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

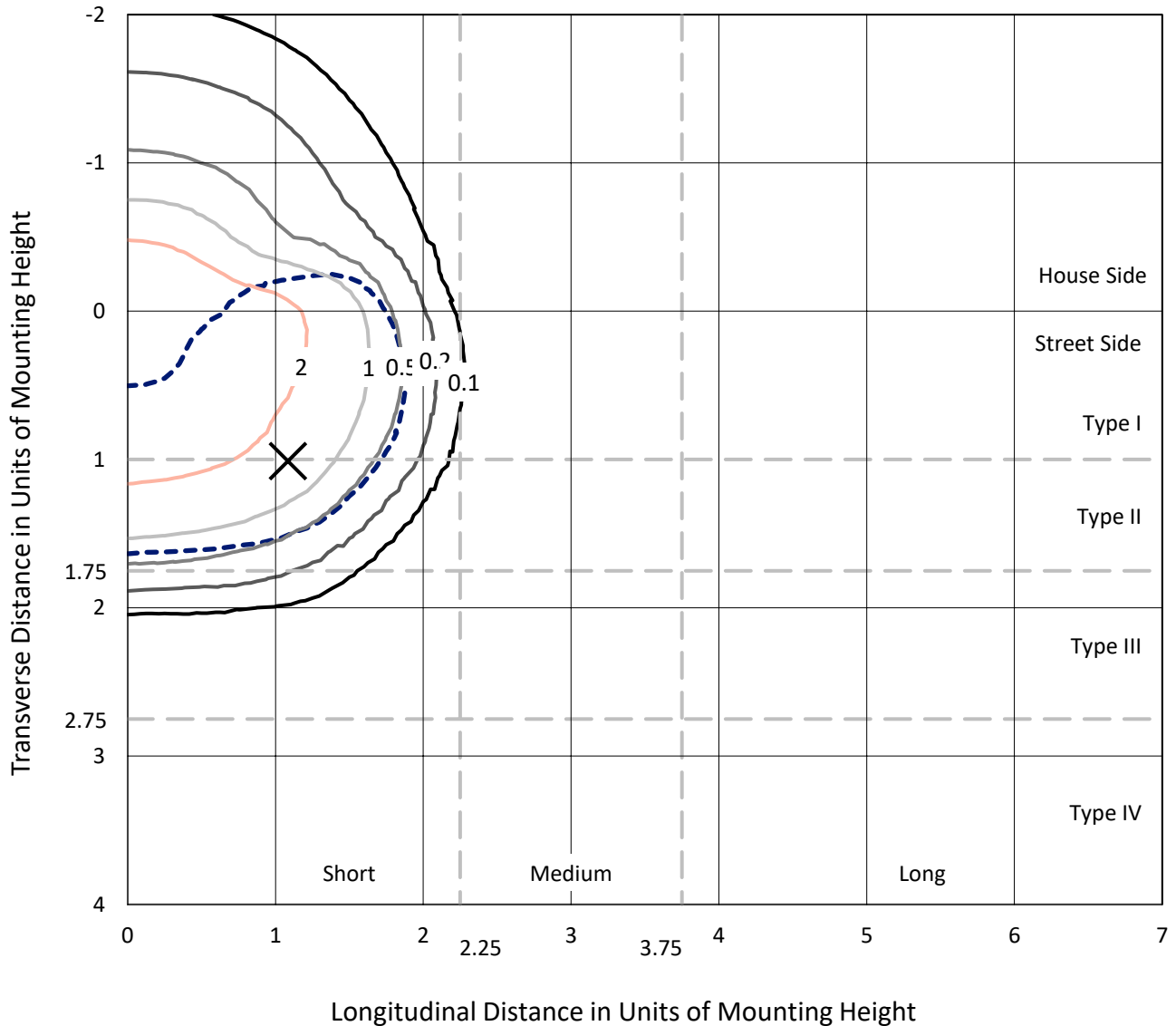
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647297
 CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

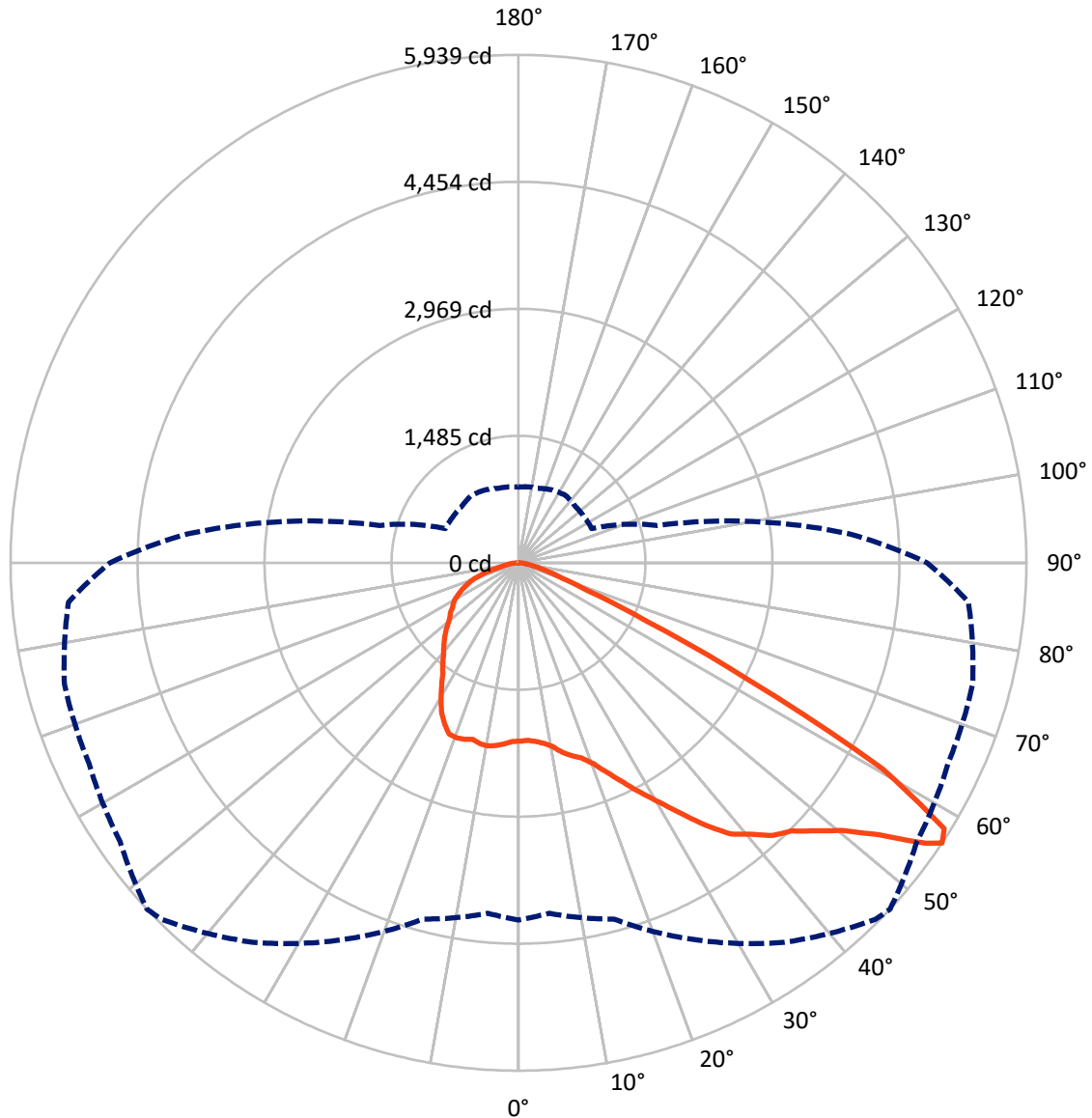
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647297
CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

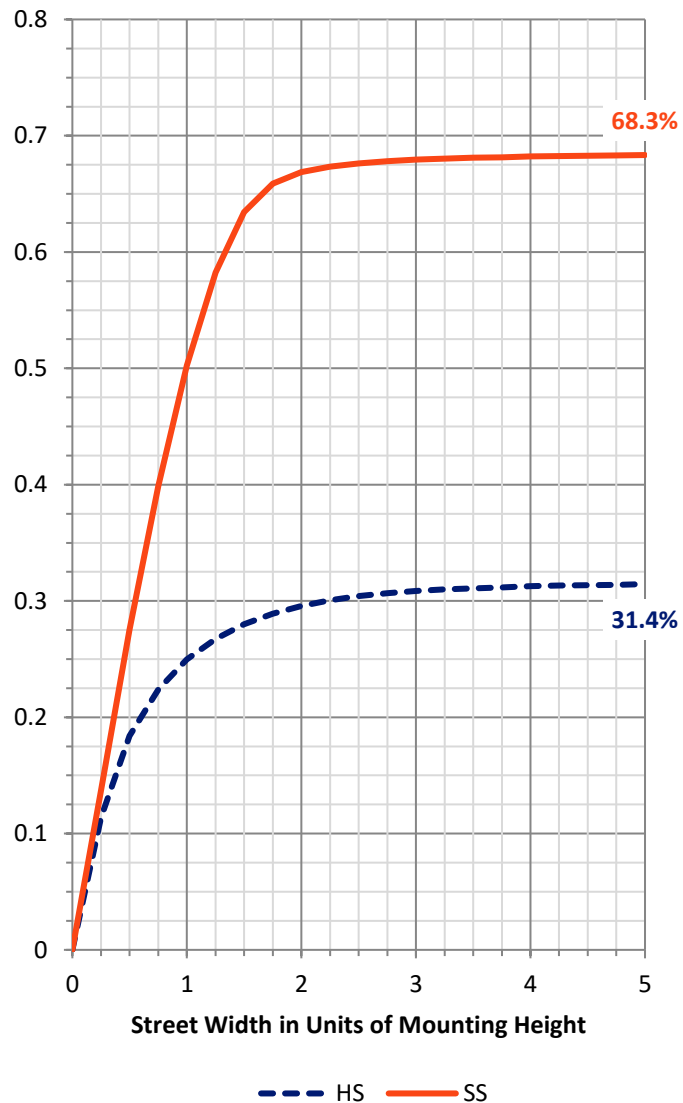
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3290.8	0.0	3290.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7094.1	0.0	7094.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	10384.9	0.0	10384.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	2.0
10°-20°	641.2	6.2
20°-30°	1133.4	10.9
30°-40°	1702.4	16.4
40°-50°	2336.3	22.5
50°-60°	2783.4	26.8
60°-70°	1191.1	11.5
70°-80°	337.1	3.2
80°-90°	56.7	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°	10384.9	100.0
0°-180°	10384.9	100.0

Coefficient of Utilization



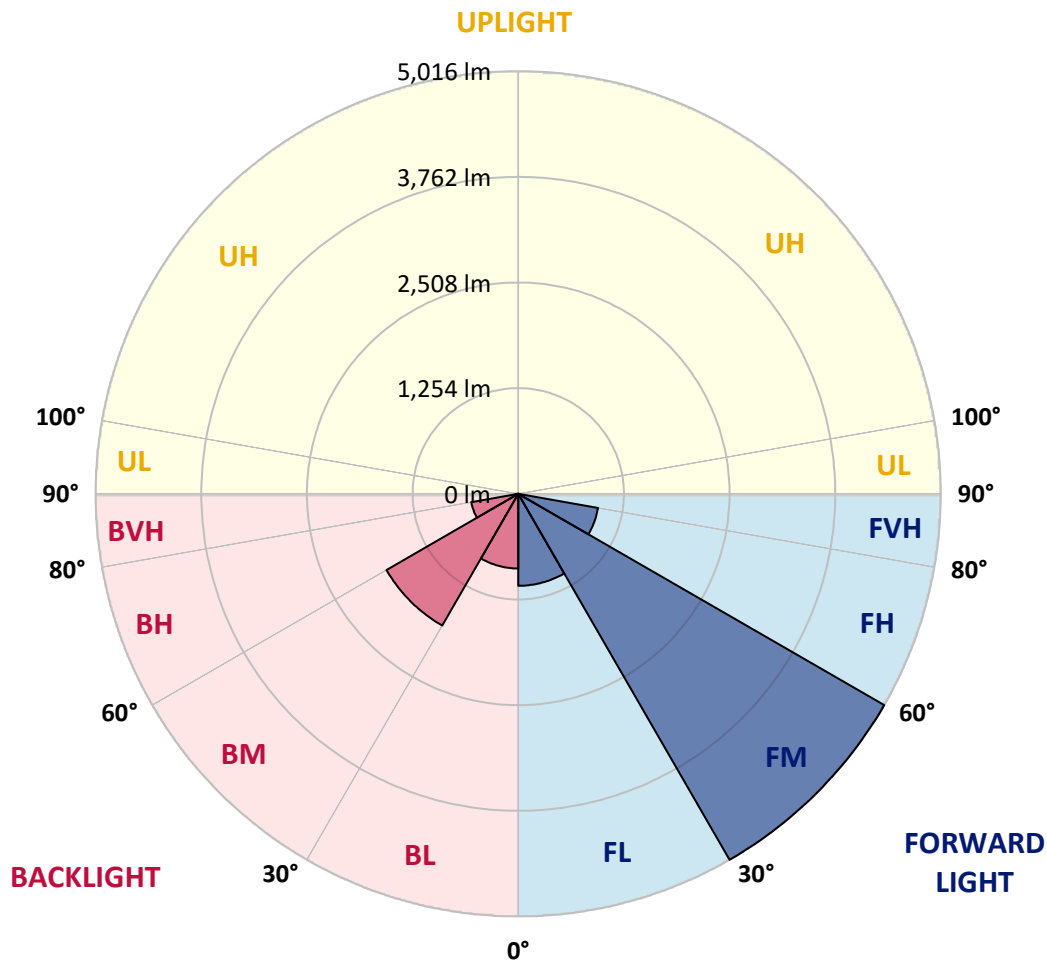
REPORT NUMBER: P647297
 CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.8	10.5			
FM (30°-60°)	5016.2	48.3			
FH (60°-80°)	962.0	9.3			G1/1800
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	886.0	8.5	B2/1000		
BM (30°-60°)	1806.0	17.4	B2/2500		
BH (60°-80°)	566.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.6	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-G2

Type II Short





REPORT NUMBER: P647297

CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	2078.1	2074.1	2071.4	2092.6	2084.7	2086.0	2078.1	2086.0	2091.3	2079.4	2096.6
5°	2074.1	2086.0	2075.4	2082.1	2099.2	2094.0	2099.2	2115.1	2111.2	2107.2	2101.9
7.5°	2111.2	2112.5	2120.4	2123.1	2128.4	2123.1	2131.0	2145.7	2141.7	2119.1	2121.8
10°	2164.1	2166.8	2168.1	2182.7	2192.0	2193.3	2184.0	2170.8	2169.5	2199.9	2178.7
12.5°	2225.1	2218.5	2234.4	2239.6	2250.3	2262.2	2274.1	2246.3	2263.5	2264.8	2239.6
15°	2313.8	2320.4	2301.9	2301.9	2305.9	2307.2	2340.3	2327.1	2324.4	2309.8	2320.4
17.5°	2446.2	2401.2	2399.9	2381.3	2378.8	2389.3	2401.2	2411.8	2447.6	2418.5	2361.5
20°	2542.9	2553.5	2515.2	2492.6	2496.6	2520.5	2508.5	2556.2	2581.4	2533.7	2478.0
22.5°	2713.8	2678.0	2687.3	2637.0	2641.0	2666.1	2664.8	2713.8	2728.4	2652.9	2572.1
25°	2829.1	2819.7	2827.7	2787.9	2793.3	2813.2	2845.0	2925.8	2901.9	2818.4	2631.7
27.5°	2997.2	2978.7	2972.1	2957.5	2952.2	3005.2	3042.3	3128.4	3111.2	2989.3	2737.7
30°	3169.4	3157.5	3164.1	3104.5	3125.7	3238.3	3248.9	3366.7	3358.8	3144.3	2855.5
32.5°	3288.6	3295.3	3307.2	3274.0	3368.1	3458.1	3493.9	3627.7	3634.3	3410.4	3083.3
35°	3480.7	3458.1	3464.8	3503.2	3546.9	3711.1	3769.4	3858.2	3913.7	3690.0	3301.8
37.5°	3601.2	3625.1	3597.3	3658.2	3772.0	3969.4	4022.3	4113.7	4172.1	3965.4	3599.8
40°	3789.3	3750.9	3770.7	3814.5	3931.0	4188.0	4173.4	4267.4	4285.9	4199.9	3878.0
42.5°	3991.9	3973.3	3945.5	4044.9	4142.9	4329.7	4358.8	4315.1	4409.1	4429.0	4275.3
45°	4234.3	4256.8	4260.8	4263.4	4349.5	4512.4	4472.7	4434.3	4542.9	4687.3	4521.7
47.5°	4459.4	4387.9	4439.6	4511.1	4632.9	4634.3	4680.6	4589.2	4704.5	4832.9	4744.2
50°	4534.9	4500.5	4569.4	4704.5	4892.6	4912.4	4917.7	4787.9	4847.5	4949.5	4821.0
52.5°	4505.8	4493.9	4670.0	4879.3	5154.8	5255.4	5282.0	5121.7	5154.8	5108.4	4990.5
55°	4366.7	4402.5	4580.0	5006.4	5428.9	5740.2	5790.5	5587.9	5377.3	5413.0	5283.2
56°	4176.0	4113.7	4312.5	4862.0	5417.0	5897.8	5938.8	5685.9	5542.9	5496.5	5280.6
57.5°	3542.9	3462.1	3723.0	4374.7	5116.4	5838.2	5868.7	5726.9	5515.1	5421.0	4895.2
60°	2074.1	2113.9	2444.9	3017.1	3946.9	4786.6	4888.6	4991.9	4850.1	4429.0	3643.6
62.5°	1001.3	976.1	1213.2	1729.7	2405.2	3055.5	3025.0	3315.1	3474.0	3146.9	2300.6
65°	524.5	521.9	662.3	944.3	1321.8	1605.2	1633.0	1789.3	2007.8	1621.1	1168.2
67.5°	385.4	396.0	466.2	663.5	850.3	867.5	863.6	941.7	962.9	814.6	717.9
70°	302.0	307.2	358.9	504.6	633.1	566.9	554.9	564.2	626.5	652.9	621.2
72.5°	218.5	223.9	267.6	340.4	396.0	386.7	394.7	446.3	523.1	551.0	517.9
75°	145.7	149.6	173.5	208.0	234.4	253.0	267.6	327.1	398.6	414.5	398.6
77.5°	100.7	104.6	120.5	147.0	149.6	161.6	166.9	194.7	238.4	258.2	247.7
80°	56.9	56.9	64.9	75.5	92.7	108.6	111.3	133.7	153.6	166.9	169.5
82.5°	26.5	27.8	34.5	46.4	60.9	75.5	78.1	92.7	107.3	120.5	124.5
85°	13.2	14.6	19.9	27.8	37.1	45.0	43.7	45.0	47.7	45.0	46.4
87.5°	4.0	4.0	5.3	6.7	5.3	6.7	6.7	7.9	9.2	10.6	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647297

CATALOG NUMBER: GALN-SA2D-835-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	2098.0	2101.9	2075.4	2100.6	2091.3	2090.0	2108.5	2105.9	2112.5	2109.9	2094.0
5°	2099.2	2090.0	2117.8	2092.6	2104.5	2129.8	2112.5	2152.2	2132.3	2145.7	2116.4
7.5°	2140.3	2143.0	2137.7	2148.2	2143.0	2154.9	2145.7	2154.9	2139.0	2140.3	2166.8
10°	2176.1	2168.1	2177.4	2164.1	2173.5	2169.5	2148.2	2141.7	2146.9	2140.3	2157.6
12.5°	2242.3	2227.7	2221.1	2205.2	2194.6	2154.9	2121.8	2103.2	2128.4	2132.3	2124.4
15°	2309.8	2311.2	2280.7	2244.9	2178.7	2119.1	2127.1	2133.7	2133.7	2144.3	2124.4
17.5°	2352.2	2352.2	2324.4	2252.9	2185.4	2150.9	2143.0	2121.8	2103.2	2100.6	2099.2
20°	2426.4	2403.9	2340.3	2251.6	2182.7	2166.8	2107.2	2056.9	2018.5	2005.3	2003.9
22.5°	2511.2	2454.2	2365.4	2254.3	2178.7	2156.2	2045.0	1969.5	1900.6	1871.4	1875.4
25°	2589.3	2497.9	2380.0	2242.3	2164.1	2055.5	1931.0	1826.4	1754.9	1731.1	1719.2
27.5°	2643.6	2544.3	2380.0	2252.9	2109.9	1943.0	1815.9	1682.0	1619.8	1603.9	1606.6
30°	2716.5	2602.5	2421.1	2230.4	2001.3	1797.3	1645.0	1557.5	1520.5	1507.2	1516.5
32.5°	2887.3	2754.8	2478.0	2176.1	1872.8	1651.6	1528.4	1479.4	1425.1	1398.6	1389.4
35°	3072.7	2899.2	2533.7	2084.7	1728.4	1519.2	1442.4	1397.3	1332.4	1303.2	1308.5
37.5°	3335.0	3084.6	2537.6	1933.7	1572.1	1444.9	1374.8	1304.6	1251.6	1206.6	1193.4
40°	3688.6	3337.6	2528.4	1774.7	1446.3	1357.6	1305.9	1218.5	1158.9	1127.1	1133.7
42.5°	3999.9	3634.3	2489.9	1594.7	1332.4	1298.0	1239.7	1153.6	1095.3	1062.2	1059.6
45°	4262.1	3852.8	2417.1	1441.0	1237.1	1231.7	1164.2	1098.0	1051.6	1021.2	1034.4
47.5°	4504.4	4029.0	2307.2	1287.4	1149.6	1160.2	1095.3	1054.2	1025.1	997.3	996.0
50°	4591.9	4026.3	2210.5	1160.2	1079.4	1074.1	1071.5	1027.8	997.3	973.5	984.1
52.5°	4737.5	4071.4	2105.9	1072.8	1015.9	1017.2	1026.4	994.6	960.2	945.6	958.9
55°	4946.8	4078.0	1875.4	970.8	962.9	972.2	972.2	951.0	921.8	909.9	903.3
56°	4776.0	3880.6	1682.0	944.3	936.4	936.4	961.5	937.7	901.9	892.7	884.7
57.5°	4405.2	3399.9	1407.9	912.6	900.6	919.2	932.4	907.3	874.1	860.9	868.8
60°	3038.3	2300.6	1058.2	843.7	843.7	874.1	884.7	847.7	833.1	831.8	821.1
62.5°	1773.4	1340.3	827.8	781.4	784.1	809.2	817.2	796.0	777.4	800.0	810.6
65°	940.4	800.0	709.9	715.2	716.5	736.4	770.9	769.5	768.2	774.8	776.1
67.5°	680.7	664.8	645.0	639.7	642.4	656.9	691.4	717.9	716.5	700.6	688.7
70°	606.6	584.1	572.1	573.5	562.9	580.1	607.9	625.1	594.7	576.1	568.2
72.5°	504.6	498.0	490.1	491.4	470.2	466.2	434.4	434.4	426.5	421.2	430.4
75°	385.4	382.7	386.7	380.1	357.6	333.8	315.2	298.0	271.5	260.9	255.6
77.5°	243.7	251.7	260.9	246.3	237.1	219.9	201.3	184.1	162.9	151.0	151.0
80°	165.5	172.2	178.8	176.2	165.5	149.6	135.1	116.6	101.9	92.7	91.4
82.5°	125.8	131.2	140.4	129.8	119.2	105.9	94.0	80.8	67.6	56.9	56.9
85°	45.0	51.7	56.9	62.2	66.2	67.6	58.3	47.7	38.4	30.5	29.1
87.5°	11.9	13.2	14.6	13.2	13.2	13.2	14.6	13.2	11.9	9.2	9.2
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)