

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: P648344

Luminaire Tested: **GALN-SA3B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648344
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-SA3B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 8089.2 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

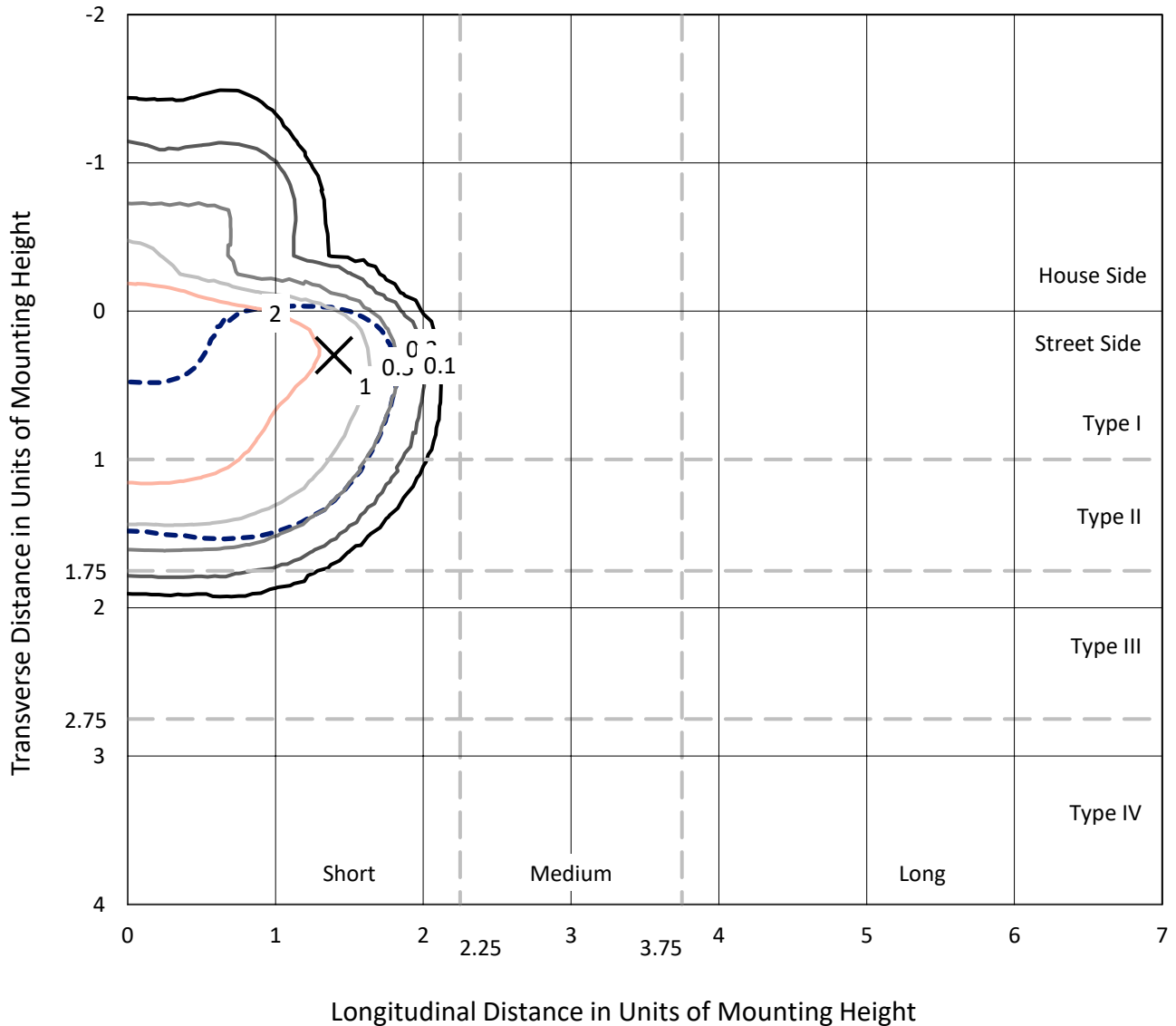
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648344
 CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

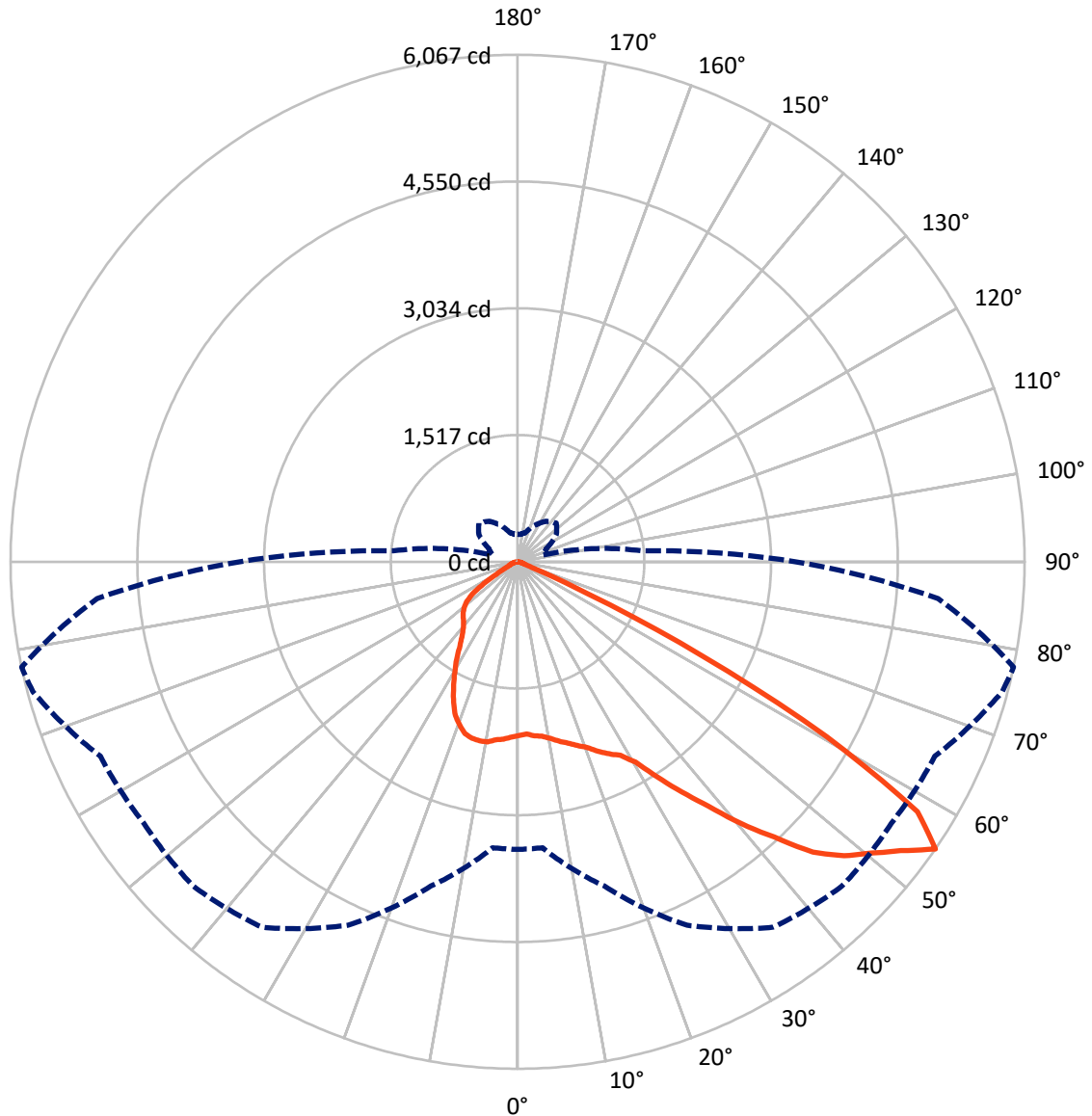
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648344
CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648344

CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

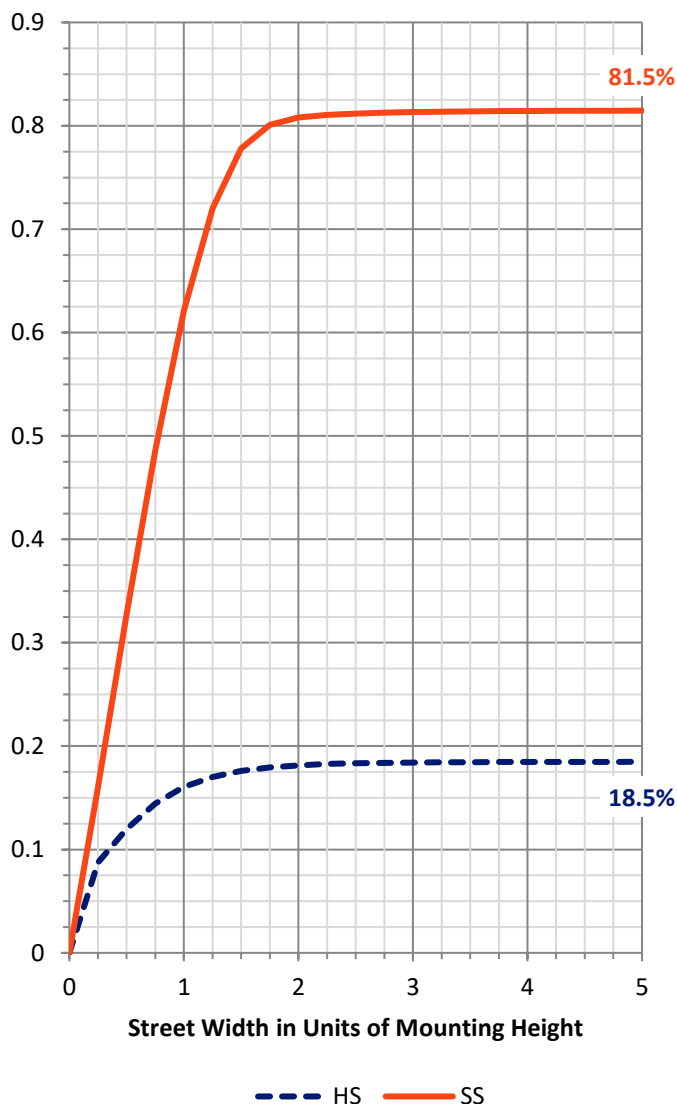
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.5	0.0	1502.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6586.7	0.0	6586.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	8089.2	0.0	8089.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	2.3
10°-20°	490.8	6.1
20°-30°	860.3	10.6
30°-40°	1418.5	17.5
40°-50°	2064.0	25.5
50°-60°	2338.8	28.9
60°-70°	668.7	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°	8089.2	100.0
0°-180°	8089.2	100.0

Coefficient of Utilization

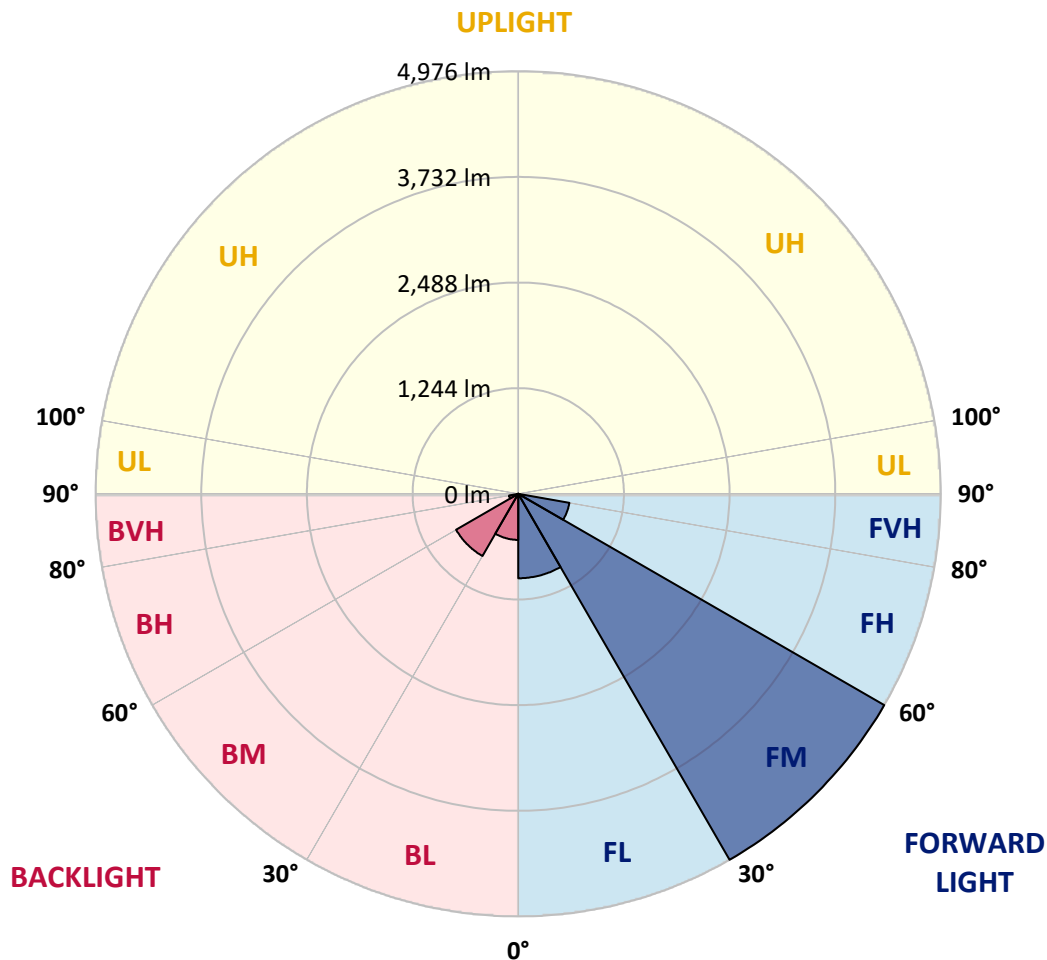


REPORT NUMBER: P648344
 CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.4	12.3			
FM (30°-60°)	4976.1	61.5			
FH (60°-80°)	610.9	7.6			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	542.1	6.7	B2/1000		
BM (30°-60°)	845.2	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





REPORT NUMBER: P648344

CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7
2.5°	1955.4	1974.2	1977.1	2000.2	1998.8	2037.8	2049.3	2050.8	2076.8	2063.8	2097.1
5°	1900.4	1890.2	1885.9	1926.4	1938.0	1972.7	2001.7	2019.0	2072.5	2091.3	2126.0
7.5°	1851.2	1851.2	1854.1	1890.2	1885.9	1930.8	1961.1	2014.7	2092.7	2108.6	2150.6
10°	1803.5	1786.1	1807.9	1845.5	1877.2	1897.5	1961.1	2011.8	2102.9	2149.2	2207.0
12.5°	1778.9	1787.6	1790.5	1818.0	1852.7	1913.4	1948.1	2032.0	2175.2	2202.7	2264.8
15°	1933.7	1916.3	1874.3	1849.8	1878.7	1907.6	1994.4	2079.7	2212.8	2251.8	2321.3
17.5°	2113.0	2098.5	2063.8	1997.3	1932.2	1985.7	2053.7	2131.8	2253.3	2311.1	2413.8
20°	2347.3	2324.2	2289.4	2159.3	2102.9	2045.0	2117.3	2209.9	2319.8	2371.9	2477.5
22.5°	2626.4	2626.4	2548.4	2390.7	2273.5	2218.6	2248.9	2302.5	2393.6	2464.4	2568.6
25°	2917.1	2908.5	2837.6	2674.2	2476.0	2410.9	2445.6	2483.2	2507.8	2546.9	2616.3
27.5°	3249.8	3199.1	3109.4	2928.7	2753.7	2627.9	2665.5	2632.2	2601.8	2622.1	2721.9
30°	3475.3	3507.2	3393.0	3219.4	3054.5	2914.2	2921.5	2892.6	2753.7	2782.6	2841.9
32.5°	3709.7	3729.9	3666.3	3570.8	3406.0	3242.6	3183.2	3158.6	3054.5	3067.6	3009.7
35°	3904.9	3944.0	3887.6	3845.6	3797.9	3666.3	3502.8	3582.4	3414.7	3382.8	3232.4
37.5°	4084.3	4072.7	4139.3	4095.8	4085.7	3993.1	3813.8	3829.7	3716.9	3709.7	3536.1
40°	4244.8	4247.7	4338.8	4359.0	4318.6	4153.7	3893.3	4019.1	4110.3	4119.0	3896.2
42.5°	4377.8	4416.9	4495.0	4658.5	4597.7	4322.9	3975.8	4113.2	4451.6	4505.1	4237.6
45°	4493.6	4573.1	4670.0	4816.1	4781.4	4562.9	4181.1	4307.0	4816.1	4956.4	4558.6
47.5°	4500.8	4604.9	4710.5	4927.4	4970.8	4691.7	4393.7	4613.6	5105.3	5257.1	4792.9
50°	4471.9	4526.8	4737.9	4973.7	5072.0	4901.4	4691.7	4871.0	5385.9	5481.3	4911.5
52.5°	4129.1	4171.0	4594.8	5017.1	5254.3	5138.6	5086.5	5229.7	5672.3	5743.1	5022.9
55°	3442.1	3434.9	4017.7	4798.7	5338.2	5490.0	5458.2	5508.8	6003.4	6067.1	5050.4
57.5°	2354.6	2486.1	2989.4	3996.0	4824.8	5407.6	5440.8	5357.0	5617.3	5641.9	4402.4
60°	1269.8	1324.8	1729.7	2666.9	3673.5	4406.8	4493.6	4341.7	4321.5	4252.0	3142.7
62.5°	504.7	532.2	762.2	1320.5	2001.7	2678.5	2865.1	2802.8	2669.8	2487.6	1627.1
65°	240.1	257.5	378.9	617.6	888.0	1116.5	1303.1	1360.9	1003.7	903.9	536.6
67.5°	163.4	176.4	276.2	352.9	316.7	331.2	431.0	400.6	235.8	201.0	148.9
70°	124.3	133.0	221.3	240.1	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	69.5
75°	53.5	60.8	94.0	55.0	24.6	24.6	37.6	47.8	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	20.3	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



REPORT NUMBER: P648344

CATALOG NUMBER: GALN-SA3B-835-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7
2.5°	2100.0	2104.3	2097.1	2095.6	2089.8	2107.2	2065.2	2055.1	2081.2	2056.6	2062.3
5°	2127.5	2137.6	2124.6	2102.9	2071.0	2021.9	1980.0	1925.0	1898.9	1880.1	1877.2
7.5°	2147.7	2155.0	2141.9	2072.5	1977.1	1852.7	1760.1	1692.1	1638.6	1622.7	1596.7
10°	2230.1	2231.6	2166.5	2013.2	1826.7	1663.2	1521.4	1417.3	1363.8	1330.6	1316.1
12.5°	2285.1	2282.2	2150.6	1896.0	1647.3	1430.4	1268.4	1142.6	1093.4	1077.5	1067.3
15°	2354.6	2338.6	2113.0	1776.0	1415.9	1181.6	1035.5	948.8	944.4	934.3	944.4
17.5°	2409.4	2364.7	2058.0	1557.6	1194.6	973.3	877.9	883.7	895.2	905.4	906.8
20°	2499.2	2406.6	1932.2	1366.7	989.2	834.5	833.0	859.1	888.0	899.6	911.2
22.5°	2567.1	2423.9	1797.7	1162.8	821.4	778.1	802.7	841.7	863.4	875.0	892.4
25°	2591.7	2376.2	1618.4	958.9	740.5	752.1	789.7	815.7	843.1	856.2	848.9
27.5°	2616.3	2351.7	1404.3	789.7	697.1	734.7	766.6	792.6	801.2	818.5	830.1
30°	2675.6	2266.3	1212.0	682.6	675.4	723.1	746.3	755.0	778.1	788.2	788.2
32.5°	2723.4	2233.0	1008.0	632.0	672.5	728.9	731.8	731.8	734.7	727.5	724.6
35°	2821.7	2118.8	825.8	601.7	671.0	730.4	737.6	713.0	646.4	620.4	613.2
37.5°	2943.1	2045.0	691.3	594.5	681.2	747.7	759.3	666.7	580.0	538.0	530.8
40°	3090.7	1993.0	603.1	591.6	704.3	788.2	753.5	630.5	517.8	457.0	454.1
42.5°	3262.8	1945.2	543.8	590.1	733.3	830.1	747.7	600.2	454.1	413.7	419.5
45°	3400.2	1919.2	503.3	580.0	743.4	854.7	752.1	546.7	428.1	402.1	405.0
47.5°	3507.2	1864.2	470.0	562.6	742.0	863.4	713.0	525.0	415.1	422.3	429.6
50°	3510.1	1790.5	428.1	525.0	720.2	847.5	668.2	504.7	412.2	442.6	457.0
52.5°	3471.0	1686.3	383.3	471.4	669.6	792.6	627.7	496.0	399.2	396.3	413.7
55°	3332.2	1491.1	308.0	381.8	565.5	653.7	591.6	480.1	360.1	326.8	329.7
57.5°	2693.0	1068.8	227.1	273.3	400.6	478.7	533.7	472.9	323.9	277.7	279.1
60°	1667.6	606.0	166.3	186.6	247.3	290.7	432.5	439.7	289.2	234.3	231.4
62.5°	856.2	299.3	128.7	131.6	151.8	170.7	296.5	368.8	261.8	222.8	222.8
65°	286.3	147.5	112.8	101.2	101.2	105.5	179.3	256.0	221.3	186.6	186.6
67.5°	122.9	109.9	98.3	88.2	81.0	76.7	101.2	148.9	164.9	141.7	135.9
70°	95.4	92.6	85.3	73.8	63.7	57.9	59.3	76.7	94.0	91.1	88.2
72.5°	70.9	70.9	68.0	57.9	49.2	42.0	39.1	40.5	44.9	46.3	47.8
75°	49.2	50.6	50.6	44.9	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	20.3	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	20.3	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)