

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: P647956

Luminaire Tested: **GALN-SA5A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10708.3 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

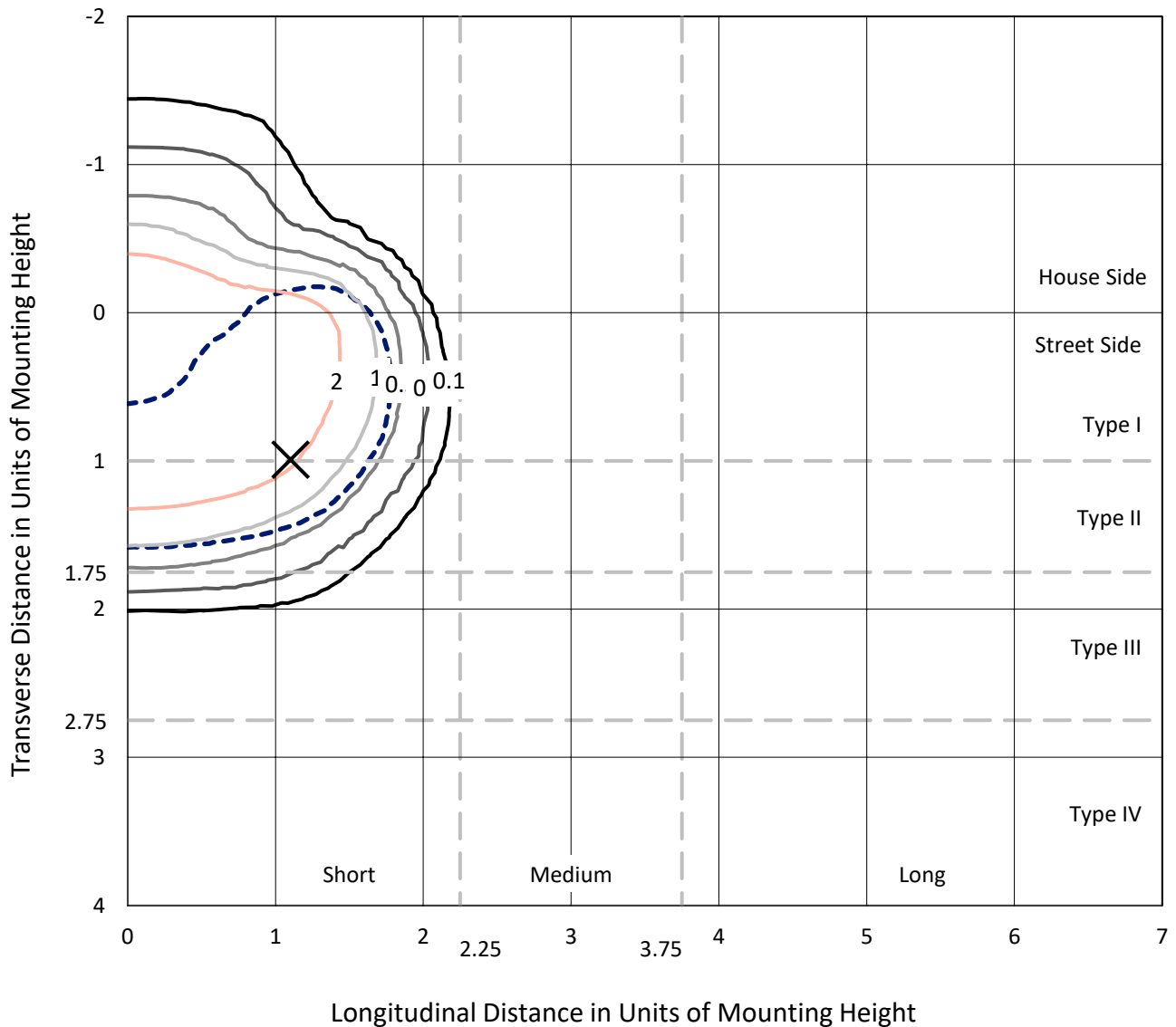
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

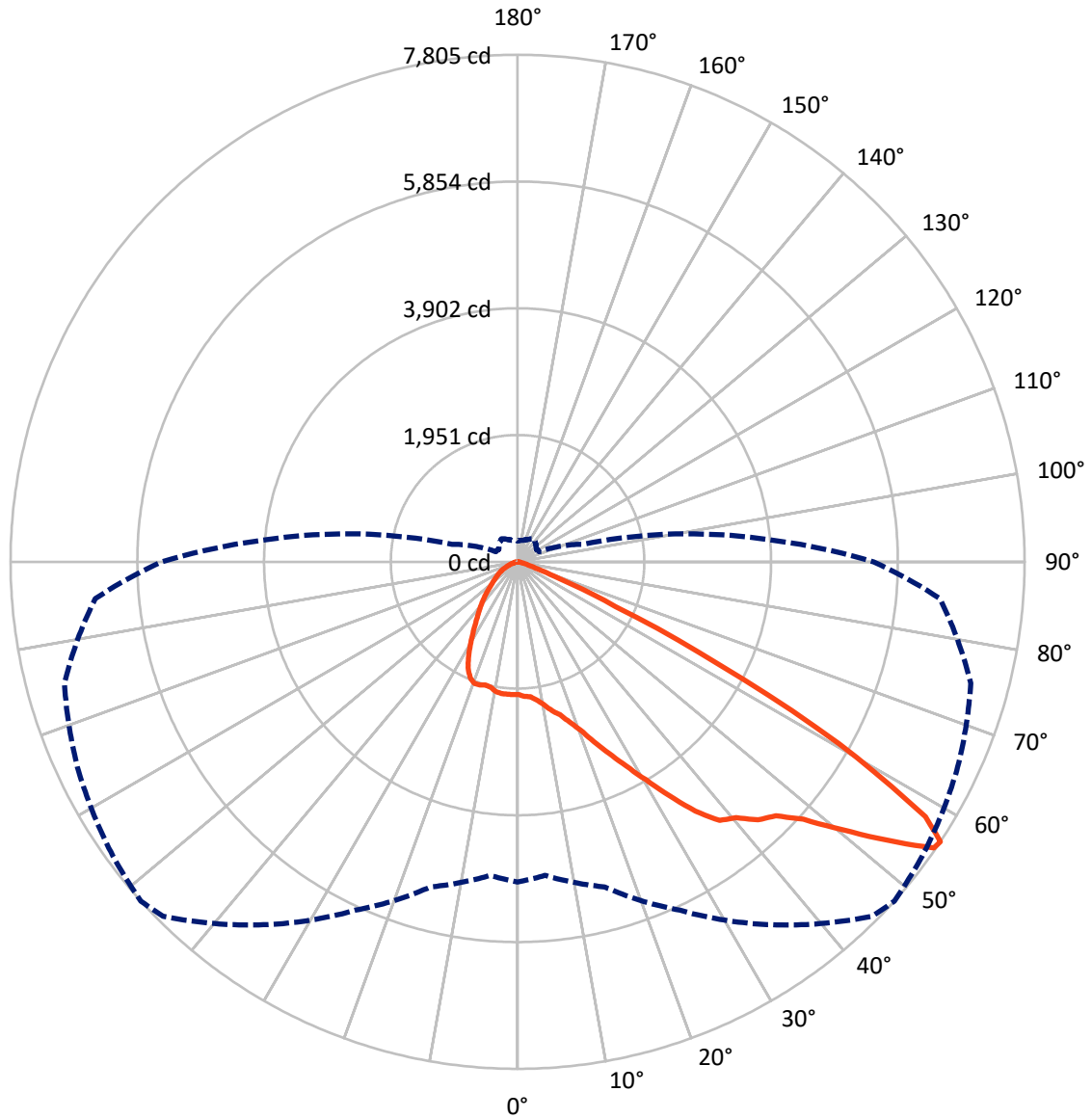
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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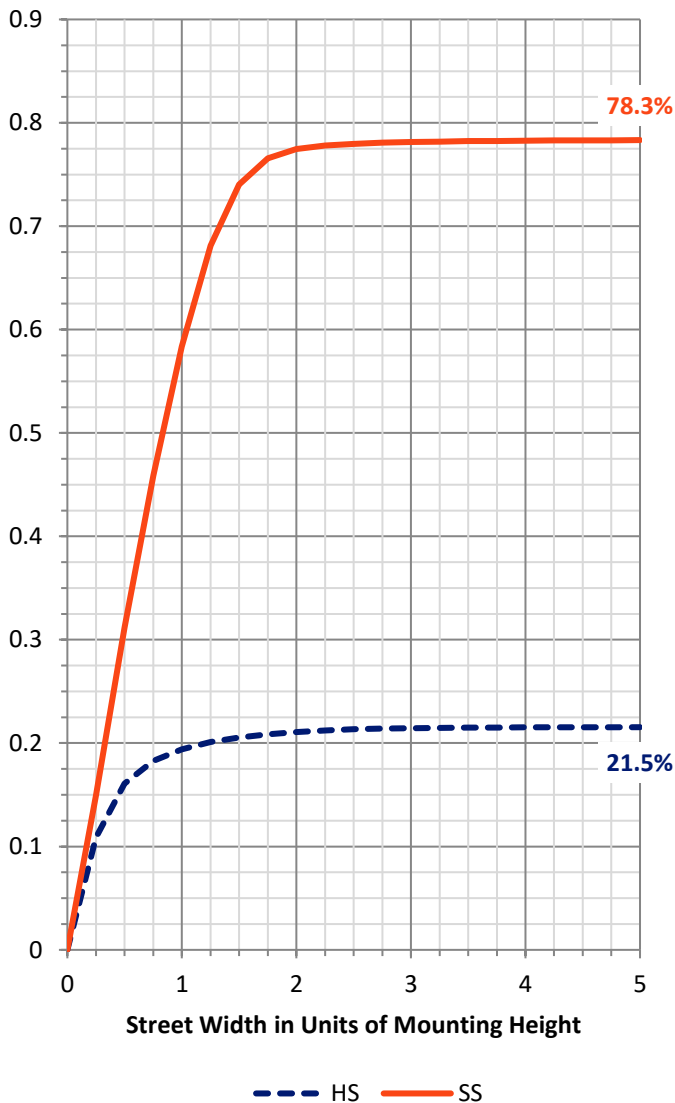
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.9	0.0	2328.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8379.5	0.0	8379.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	10708.3	0.0	10708.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.9
10°-20°	636.7	5.9
20°-30°	1154.9	10.8
30°-40°	1814.1	16.9
40°-50°	2646.4	24.7
50°-60°	3188.4	29.8
60°-70°	933.5	8.7
70°-80°	118.4	1.1
80°-90°	16.6	0.2
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°	10708.3	100.0
0°-180°	10708.3	100.0



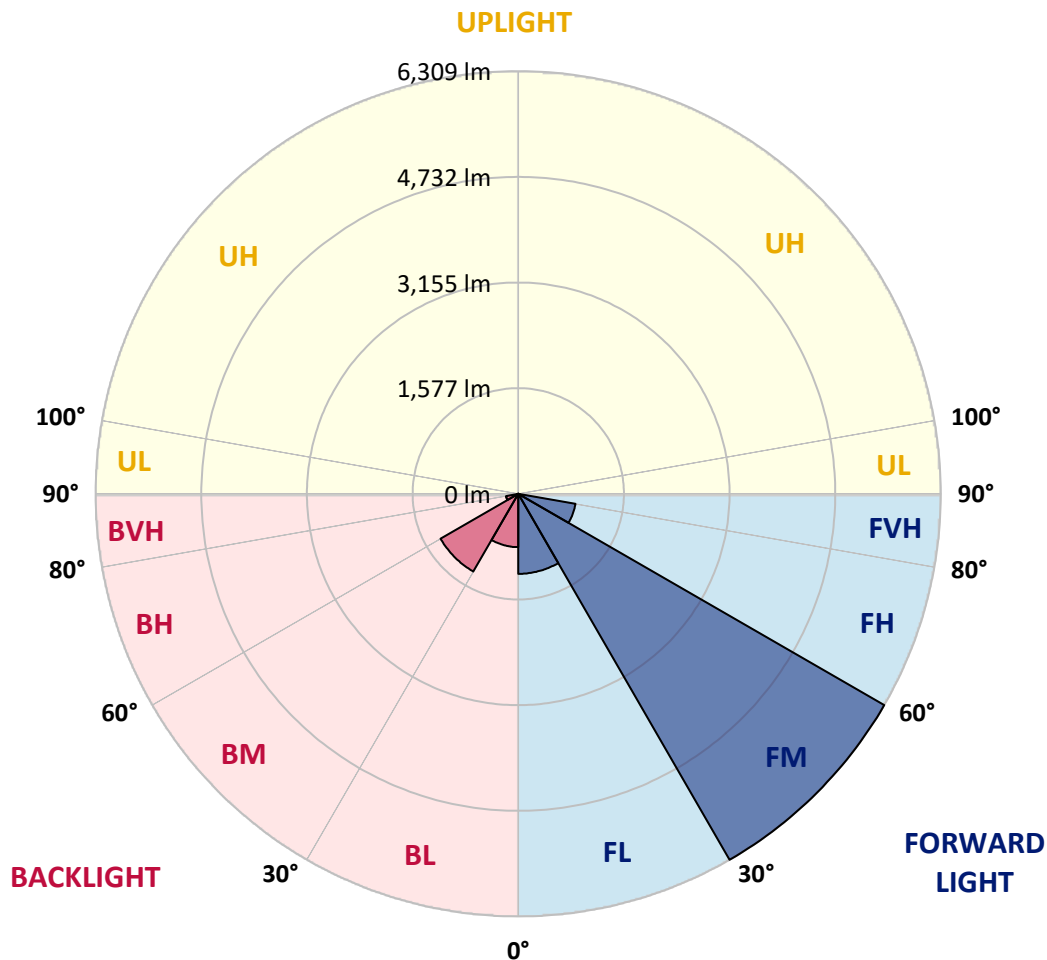
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.8	11.2			
FM (30°-60°)	6309.4	58.9			
FH (60°-80°)	866.9	8.1			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	796.0	7.4	B2/1000		
BM (30°-60°)	1339.5	12.5	B2/2500		
BH (60°-80°)	185.1	1.7	B1/500		G1/500
BVH (80°-90°)	8.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2082.3	2072.6	2072.6	2057.0	2074.6	2066.7	2072.6	2053.1	2072.6	2043.3	2066.7
5°	2092.1	2094.1	2086.2	2096.0	2096.0	2107.7	2088.2	2105.7	2115.5	2094.1	2084.3
7.5°	2142.8	2146.7	2144.7	2137.0	2152.5	2150.6	2148.6	2135.0	2138.8	2131.1	2119.3
10°	2242.2	2240.2	2250.0	2230.5	2218.8	2232.5	2236.4	2215.0	2199.3	2193.5	2156.5
12.5°	2386.5	2363.1	2349.5	2330.0	2335.8	2316.3	2351.4	2314.4	2306.6	2271.5	2234.4
15°	2503.5	2499.6	2501.5	2470.4	2435.2	2443.0	2443.0	2423.5	2411.9	2369.0	2316.3
17.5°	2743.3	2661.4	2679.0	2640.0	2610.8	2608.8	2591.3	2595.1	2563.9	2474.2	2394.3
20°	2930.5	2895.4	2868.1	2801.8	2756.9	2770.6	2762.8	2743.3	2733.5	2616.6	2503.5
22.5°	3098.2	3109.8	3065.0	3047.4	2985.1	2990.9	3006.5	2988.9	2914.9	2794.0	2626.3
25°	3334.1	3320.5	3260.0	3238.6	3180.1	3201.5	3261.9	3248.3	3201.5	2983.2	2721.9
27.5°	3612.9	3566.1	3577.8	3480.3	3423.7	3484.2	3556.4	3624.6	3492.0	3205.4	2834.9
30°	3809.8	3761.1	3757.1	3753.3	3739.6	3809.8	3893.6	3956.0	3848.8	3427.7	3022.1
32.5°	3907.3	3919.0	3952.1	3940.4	4059.4	4203.7	4291.4	4381.1	4246.6	3790.3	3269.7
35°	4166.7	4092.5	4166.7	4174.4	4297.3	4603.3	4714.5	4929.0	4895.9	4303.1	3572.0
37.5°	4318.7	4312.8	4322.6	4396.7	4515.6	4893.9	5051.8	5217.5	5155.1	4611.2	3948.3
40°	4570.2	4585.8	4583.8	4640.4	4771.1	5112.3	5176.6	5311.2	5317.0	5038.1	4502.0
42.5°	4973.9	4911.4	4870.5	4929.0	5112.3	5301.4	5430.0	5402.8	5595.8	5556.8	5213.6
45°	5336.5	5373.5	5313.0	5410.5	5476.9	5578.2	5574.3	5632.8	5878.5	6063.7	5749.8
47.5°	5675.7	5699.1	5728.3	5794.7	5939.0	5954.6	5921.4	5896.1	6235.3	6426.4	6165.1
50°	5878.5	5900.0	6036.5	6155.4	6424.4	6459.5	6479.0	6414.7	6644.8	6666.2	6557.0
52.5°	5823.9	5847.3	6038.4	6430.3	6859.2	7181.0	7122.5	7013.3	6999.6	7083.5	6919.7
55°	5340.4	5318.9	5582.2	6192.4	6995.7	7767.8	7775.6	7660.6	7440.2	7383.7	6865.1
56°	4929.0	4845.1	5180.5	5917.5	6820.2	7717.1	7804.9	7682.0	7475.4	7221.9	6527.8
57.5°	4037.9	4117.9	4451.3	5061.5	6213.9	7352.5	7403.2	7374.0	7218.0	6792.9	5744.0
60°	2226.6	2367.0	2661.4	3408.2	4424.0	5642.6	5683.6	5921.4	5950.6	5201.9	3952.1
62.5°	945.6	930.0	1236.1	1785.9	2519.1	3406.2	3482.2	3726.0	3770.8	2998.7	1982.9
65°	384.1	405.5	559.6	898.8	1331.6	1552.0	1659.3	1739.2	1887.3	1238.1	731.2
67.5°	253.5	251.5	329.5	512.8	717.5	692.2	692.2	731.2	676.6	505.0	315.9
70°	181.3	187.2	235.9	354.9	446.5	331.4	317.8	304.2	345.1	333.4	255.4
72.5°	118.9	126.8	157.9	212.5	232.0	181.3	181.3	218.4	284.7	269.0	208.6
75°	78.0	79.9	97.5	122.9	115.0	93.6	103.4	146.3	206.7	198.9	148.1
77.5°	52.6	54.6	66.3	79.9	64.4	52.6	56.5	74.1	101.4	101.4	78.0
80°	19.5	21.5	27.3	25.4	29.3	37.0	41.0	50.7	60.4	60.4	52.6
82.5°	0.0	2.0	5.9	13.6	21.5	29.3	33.1	39.0	44.9	50.7	48.8
85°	0.0	2.0	5.9	9.8	15.6	17.5	19.5	13.6	11.7	11.7	9.8
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	2.0	2.0
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°	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2045.3	2043.3	2043.3	2037.5	2049.2	2043.3	2047.2	2045.3	2020.0	2039.5	2025.8
5°	2066.7	2080.4	2059.0	2055.1	2039.5	2045.3	2045.3	2025.8	2043.3	2041.4	2037.5
7.5°	2121.3	2098.0	2074.6	2051.1	2047.2	2041.4	2020.0	2012.2	2025.8	2010.2	2033.6
10°	2144.7	2148.6	2113.6	2082.3	2053.1	2012.2	1982.9	1965.3	1943.9	1967.3	1980.9
12.5°	2252.0	2213.0	2152.5	2103.8	2004.3	1963.4	1934.2	1926.3	1963.4	1971.2	1957.6
15°	2289.0	2283.1	2205.2	2096.0	1992.7	1943.9	1949.7	1934.2	1938.1	1918.6	1922.4
17.5°	2365.1	2298.7	2207.1	2070.6	1990.7	1979.0	1943.9	1881.5	1846.4	1830.8	1844.4
20°	2448.9	2384.5	2252.0	2080.4	2008.2	1977.1	1862.1	1785.9	1713.8	1674.8	1676.8
22.5°	2523.0	2443.0	2232.5	2084.3	2023.8	1895.2	1756.7	1606.6	1516.9	1456.5	1458.4
25°	2612.6	2499.6	2240.2	2092.1	1982.9	1764.5	1565.7	1419.4	1312.2	1271.2	1284.9
27.5°	2663.4	2534.6	2283.1	2109.6	1875.7	1579.3	1364.8	1228.4	1166.0	1146.5	1144.5
30°	2815.4	2612.6	2335.8	2074.6	1696.3	1380.4	1181.5	1097.7	1037.2	1019.7	1023.6
32.5°	3041.6	2755.0	2404.0	1982.9	1513.0	1203.0	1062.6	1000.2	943.7	910.6	906.6
35°	3230.7	2998.7	2476.2	1840.6	1300.5	1066.5	978.8	900.8	815.0	778.0	768.2
37.5°	3591.5	3273.6	2460.6	1626.1	1097.7	965.1	889.1	793.6	719.4	668.8	662.9
40°	4071.1	3595.4	2384.5	1364.8	947.6	875.5	793.6	701.9	610.3	567.4	563.4
42.5°	4654.1	3989.2	2246.1	1099.6	797.5	785.7	711.7	606.4	524.5	493.3	495.2
45°	5127.9	4326.5	2105.7	883.2	686.3	698.0	633.7	534.2	477.7	452.3	452.3
47.5°	5549.0	4554.6	1953.7	729.2	582.9	610.3	553.7	495.2	446.5	427.0	423.1
50°	5954.6	4786.6	1801.6	590.8	497.2	524.5	518.7	471.8	432.8	409.4	411.4
52.5°	6208.0	4823.7	1608.5	483.5	434.8	466.0	485.5	442.6	399.7	386.0	382.2
55°	5898.0	4346.0	1247.9	397.8	368.5	409.4	446.5	397.8	364.6	341.2	339.3
56°	5480.8	3885.9	1043.1	366.5	349.0	393.8	432.8	380.2	343.2	329.5	319.8
57.5°	4640.4	3180.1	770.2	325.6	323.7	366.5	411.4	362.7	319.8	308.0	308.0
60°	2893.4	1789.9	466.0	273.0	280.8	325.6	370.4	323.7	284.7	284.7	290.5
62.5°	1318.0	744.8	282.7	232.0	241.8	280.8	329.5	292.5	271.0	292.5	296.4
65°	448.4	321.7	204.8	185.3	191.1	232.0	282.7	296.4	294.4	308.0	315.9
67.5°	251.5	206.7	171.6	154.0	150.1	171.6	232.0	296.4	284.7	278.8	282.7
70°	212.5	175.5	152.1	136.5	130.6	138.4	179.4	224.3	200.8	195.0	191.1
72.5°	171.6	146.3	132.6	122.9	105.3	89.7	81.9	85.8	95.5	101.4	111.1
75°	120.9	111.1	111.1	99.4	76.0	56.5	44.9	37.0	25.4	17.5	19.5
77.5°	68.3	68.3	70.2	60.4	48.8	37.0	27.3	19.5	9.8	3.9	2.0
80°	46.8	50.7	54.6	48.8	41.0	33.1	23.4	13.6	5.9	0.0	0.0
82.5°	46.8	52.6	56.5	48.8	41.0	31.2	23.4	13.6	5.9	2.0	0.0
85°	9.8	11.7	13.6	15.6	23.4	23.4	17.5	11.7	5.9	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)