

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: P323957

Luminaire Tested: **GLEON-SA3B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10410 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

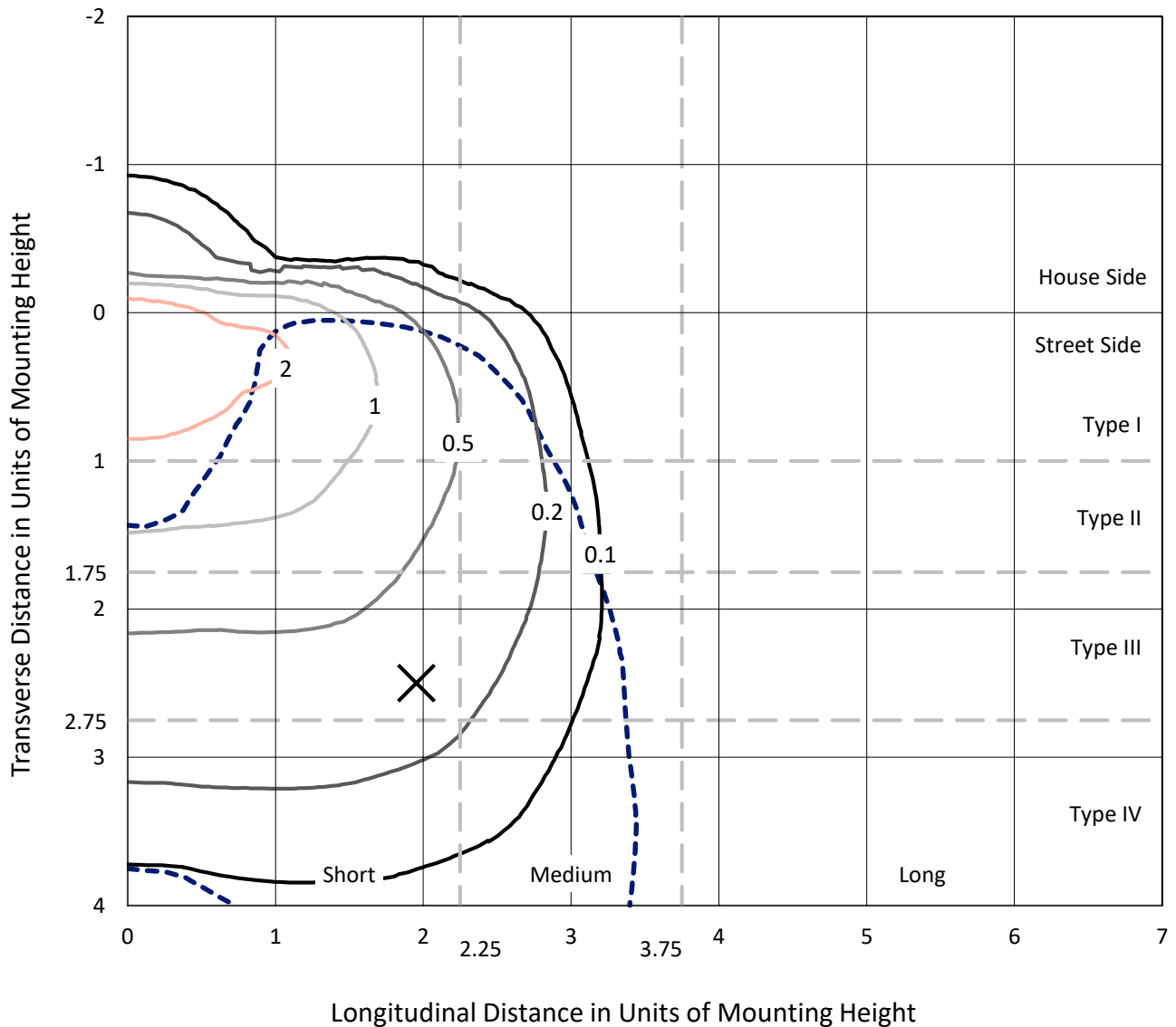
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

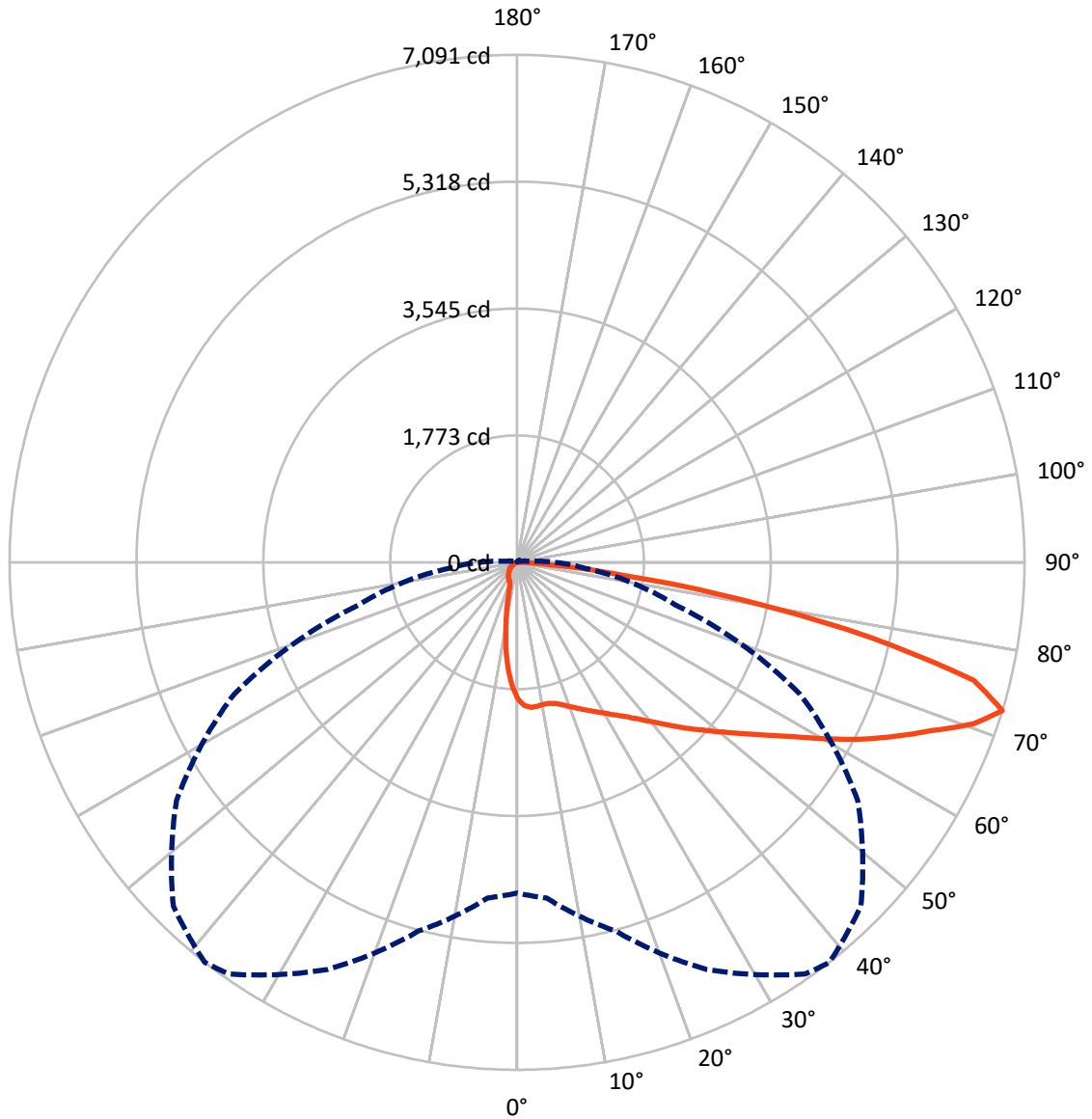
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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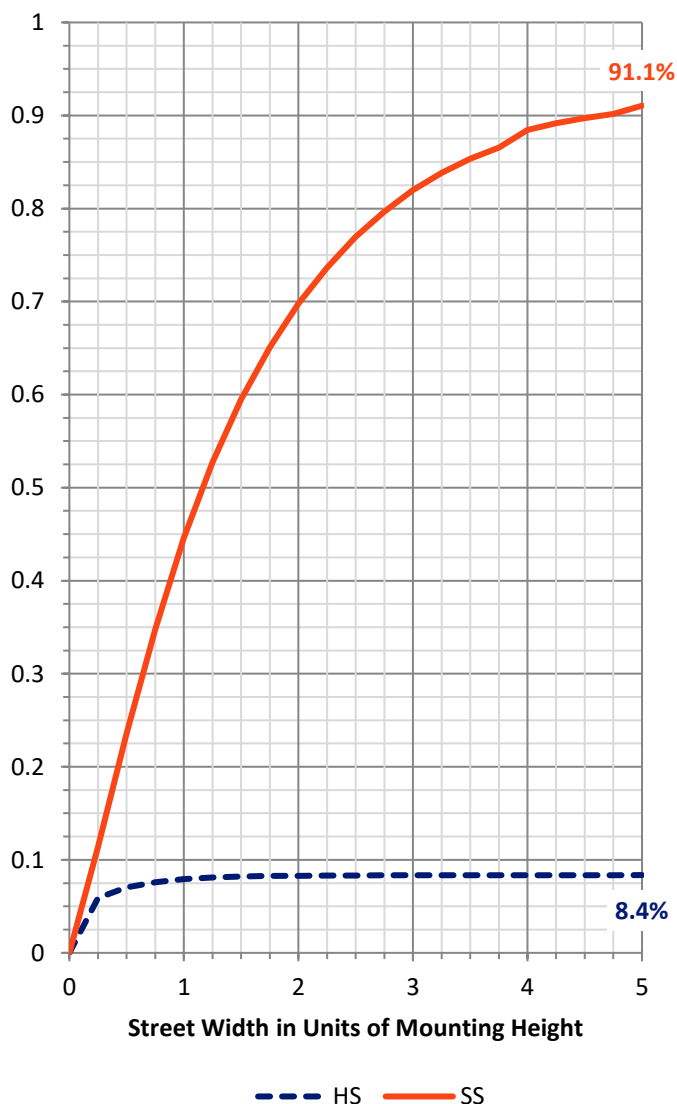
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	876.0	0.0	876.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9534.0	0.0	9534.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	10410.0	0.0	10410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.6
10°-20°	398.9	3.8
20°-30°	634.5	6.1
30°-40°	953.9	9.2
40°-50°	1455.2	14.0
50°-60°	2056.6	19.8
60°-70°	2579.7	24.8
70°-80°	1928.9	18.5
80°-90°	239.2	2.3
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°	10410.0	100.0
0°-180°	10410.0	100.0

Coefficient of Utilization

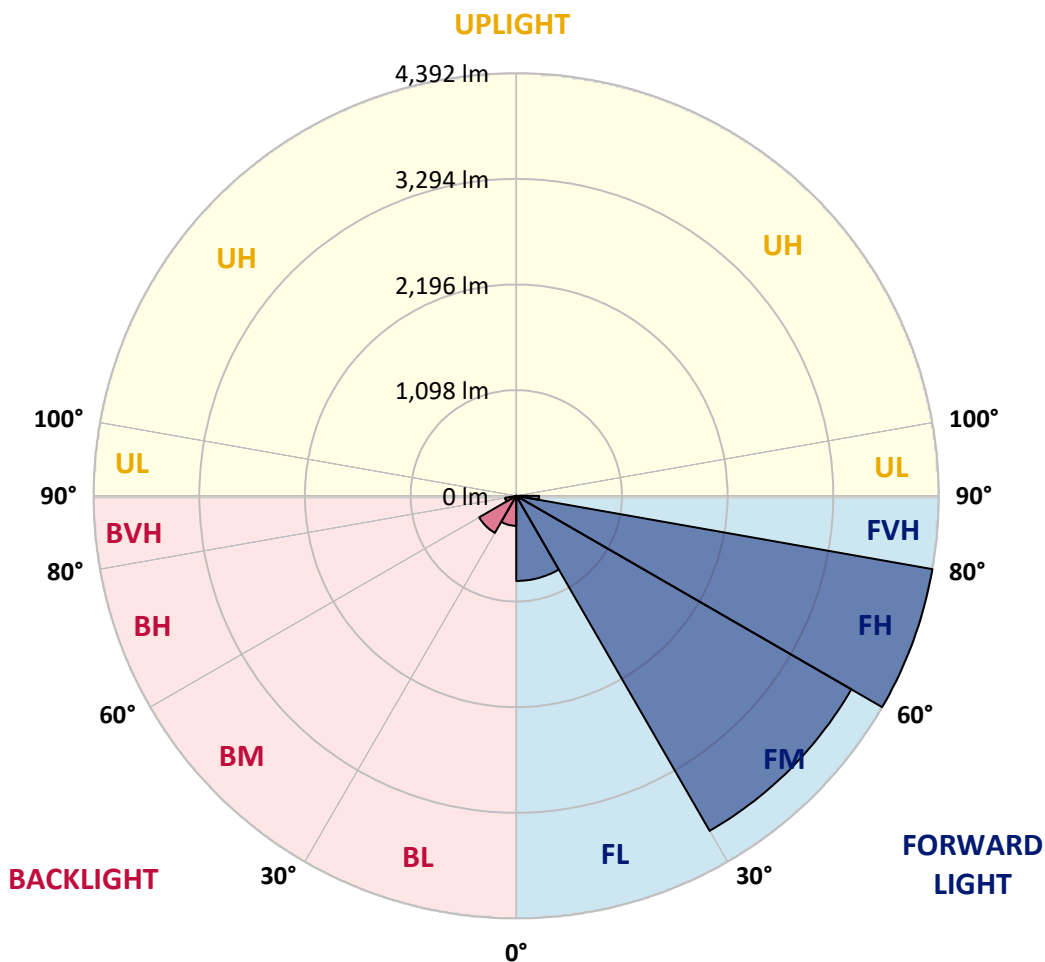


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.6	8.5			
FM (30°-60°)	4020.8	38.6			
FH (60°-80°)	4391.6	42.2			G2/5000
FVH (80°-90°)	236.9	2.3			G3/500
BL (0°-30°)	311.9	3.0	B1/500		
BM (30°-60°)	444.9	4.3	B1/1000		
BH (60°-80°)	117.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4
2.5°	2032.0	2032.4	2027.6	2019.9	2009.9	2004.7	1996.1	1982.2	1967.5	1941.2	1912.6
5°	2073.5	2073.5	2067.4	2057.0	2041.0	2036.3	2019.9	1997.8	1967.5	1924.7	1876.8
7.5°	2069.1	2070.0	2061.8	2051.0	2035.0	2030.7	2010.8	1986.1	1948.5	1896.6	1835.2
10°	2046.7	2048.8	2042.3	2037.1	2022.4	2017.7	1999.1	1974.5	1936.8	1881.5	1811.0
12.5°	2023.7	2025.9	2028.1	2032.8	2023.7	2022.0	2007.3	1986.6	1950.7	1893.2	1813.6
15°	2009.0	2013.4	2028.9	2047.5	2049.7	2048.0	2038.4	2019.0	1982.7	1923.0	1832.2
17.5°	2009.0	2016.0	2048.4	2083.8	2096.4	2097.7	2089.5	2062.2	2019.0	1955.0	1849.5
20°	2025.9	2035.4	2086.0	2136.2	2156.9	2156.9	2140.9	2102.9	2052.3	1984.0	1861.2
22.5°	2069.1	2081.7	2145.2	2203.2	2225.2	2220.5	2198.8	2143.5	2086.9	2016.8	1875.9
25°	2154.3	2163.8	2230.0	2288.3	2301.7	2290.9	2263.7	2192.8	2131.0	2061.4	1902.7
27.5°	2264.1	2265.4	2333.7	2383.0	2374.8	2367.4	2333.3	2254.6	2194.5	2124.9	1949.0
30°	2384.7	2384.7	2444.8	2482.4	2457.4	2451.3	2417.2	2329.4	2275.8	2211.4	2014.7
32.5°	2501.5	2506.7	2555.5	2579.3	2551.2	2545.1	2511.8	2424.1	2383.9	2343.2	2117.1
35°	2614.3	2618.2	2664.5	2677.4	2650.6	2652.4	2628.6	2554.2	2539.1	2533.9	2271.5
37.5°	2723.7	2724.6	2771.7	2779.9	2766.5	2781.2	2783.4	2717.6	2745.7	2787.7	2488.9
40°	2823.6	2824.4	2871.1	2892.3	2915.2	2934.2	2951.1	2916.1	3009.0	3106.3	2747.9
42.5°	2903.5	2912.6	2971.8	3012.1	3072.6	3108.9	3154.7	3153.0	3322.5	3468.6	3060.9
45°	2974.0	2989.6	3072.1	3142.6	3246.4	3304.3	3376.1	3432.3	3675.3	3872.0	3377.8
47.5°	3067.0	3081.7	3175.9	3291.3	3429.7	3505.8	3624.7	3746.2	4063.1	4268.0	3687.4
50°	3198.0	3191.5	3284.4	3450.0	3627.7	3727.6	3897.0	4079.0	4447.8	4613.0	3869.4
52.5°	3337.6	3335.0	3403.7	3622.5	3861.2	3977.9	4201.8	4423.2	4815.7	4850.8	3952.8
55°	3510.5	3491.9	3549.9	3819.2	4138.3	4263.7	4527.4	4763.9	5108.9	4984.8	3994.7
57.5°	3691.7	3661.0	3716.3	4038.4	4450.9	4599.1	4887.9	5095.9	5303.8	5076.4	3994.3
60°	3878.9	3842.6	3908.3	4312.5	4839.1	5010.7	5278.8	5320.3	5485.9	5122.7	3964.9
62.5°	4035.4	4013.8	4111.5	4605.6	5272.7	5441.3	5574.1	5524.3	5639.3	5158.6	3896.2
65°	4201.0	4202.3	4360.1	4947.6	5733.6	5847.3	5858.5	5788.9	5767.7	5151.2	3663.6
67.5°	4424.9	4445.7	4709.0	5411.9	6181.9	6269.7	6268.8	6075.6	5861.6	4859.0	3147.8
70°	4661.8	4710.7	5111.0	5943.3	6671.3	6760.4	6714.5	6258.0	5519.1	3929.0	2227.8
72.5°	4622.1	4706.8	5334.5	6278.3	7022.8	7090.7	6792.8	5809.7	4362.2	2283.6	948.5
75°	3565.9	3664.0	4891.4	5946.3	6654.0	6593.1	5836.5	4520.9	2383.9	637.3	213.6
77.5°	1883.7	1936.0	3231.2	4530.0	5188.4	5060.9	4111.5	2508.0	726.7	157.8	96.0
80°	986.6	998.7	1408.1	2570.2	3202.3	3203.1	2436.6	1101.6	299.6	80.8	64.4
82.5°	528.3	538.7	744.0	1187.6	1677.9	1520.9	933.0	606.1	174.2	45.8	61.8
85°	127.1	129.3	422.0	542.6	659.7	471.2	277.1	508.9	47.1	26.8	50.2
87.5°	48.9	49.7	156.5	234.8	168.2	108.9	129.7	189.8	6.1	10.4	7.8
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°	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4	1914.4
2.5°	1895.3	1884.1	1856.4	1821.4	1790.3	1767.8	1734.1	1712.0	1697.3	1696.9	1691.3
5°	1847.4	1824.4	1764.8	1693.9	1629.5	1571.5	1503.2	1449.2	1409.0	1402.5	1388.6
7.5°	1795.9	1758.3	1666.6	1556.0	1447.9	1338.1	1210.5	1131.4	1063.5	1031.1	1027.7
10°	1764.3	1711.6	1581.5	1421.5	1252.0	1073.5	906.6	791.2	707.7	683.9	666.2
12.5°	1757.9	1688.3	1515.8	1295.3	1053.2	817.1	632.5	509.7	443.1	422.0	416.3
15°	1764.3	1677.4	1460.4	1170.3	851.7	579.8	424.5	353.2	328.1	322.1	321.7
17.5°	1768.2	1664.5	1397.7	1031.5	656.3	414.2	325.1	304.4	300.5	300.0	300.9
20°	1767.8	1644.6	1322.9	876.8	488.1	325.5	294.0	289.7	288.8	289.2	288.8
22.5°	1764.8	1621.2	1240.8	717.2	368.8	291.0	280.6	278.0	277.6	277.6	277.6
25°	1770.4	1602.7	1150.4	564.6	303.9	275.0	268.5	266.3	265.9	265.9	265.0
27.5°	1790.7	1592.3	1051.4	434.5	274.5	260.7	255.5	255.1	253.8	253.3	254.2
30°	1823.6	1592.3	942.9	338.1	256.8	246.0	242.1	241.2	240.8	240.4	240.8
32.5°	1881.5	1604.4	824.5	281.0	239.9	229.6	227.0	228.3	227.0	227.0	227.0
35°	1986.1	1640.7	700.4	245.1	222.2	213.6	211.0	212.7	211.8	211.8	211.4
37.5°	2138.7	1708.1	575.4	223.5	206.7	197.6	194.1	196.7	195.8	195.8	195.4
40°	2324.6	1806.3	456.5	207.1	191.5	182.0	179.0	180.3	178.1	178.1	179.0
42.5°	2554.2	1930.8	352.8	191.1	176.4	167.3	165.6	164.3	160.4	158.2	158.7
45°	2809.3	2060.5	275.0	175.5	162.1	154.8	152.2	148.7	142.2	137.9	138.3
47.5°	3037.1	2160.4	223.5	160.4	149.2	143.5	139.6	133.2	123.6	118.5	118.9
50°	3156.9	2175.5	190.2	145.3	137.0	131.4	125.8	115.9	104.6	99.0	98.6
52.5°	3187.6	2104.6	165.6	131.4	124.9	118.5	111.1	97.7	85.2	79.1	78.3
55°	3198.8	1996.5	143.5	118.5	112.0	104.6	95.1	80.0	68.3	62.3	61.8
57.5°	3161.6	1835.2	126.2	106.8	99.0	89.9	78.3	64.0	52.7	48.0	48.0
60°	3079.1	1616.9	112.8	94.2	85.6	75.2	63.1	49.7	39.3	35.5	35.5
62.5°	2914.3	1334.2	100.3	81.3	73.1	62.3	51.0	37.6	27.7	25.5	25.9
65°	2603.5	1012.1	87.8	69.6	62.3	51.4	39.8	26.8	18.6	18.6	19.5
67.5°	2123.2	703.0	74.8	59.2	53.6	41.9	30.3	18.6	13.0	14.7	16.4
70°	1405.5	394.3	64.0	48.9	45.8	33.3	22.5	12.5	10.4	13.8	16.9
72.5°	530.5	153.5	53.6	39.3	39.8	25.5	16.0	9.5	9.5	15.1	19.9
75°	147.9	75.2	38.5	29.0	31.1	18.6	11.7	8.2	9.1	17.3	23.3
77.5°	86.9	55.3	25.1	16.9	21.2	13.0	7.8	6.5	7.8	14.7	22.5
80°	70.0	29.4	14.7	8.6	11.7	7.3	5.2	3.9	2.2	5.6	11.7
82.5°	70.0	17.7	6.9	6.1	6.1	3.9	2.6	1.7	0.4	0.0	3.0
85°	47.1	7.3	4.3	3.9	3.0	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	7.8	3.0	1.7	0.9	0.4	0.0	0.0	0.0	0.0	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)