

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: P646976

Luminaire Tested: **GALN-SA5C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19942.2 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

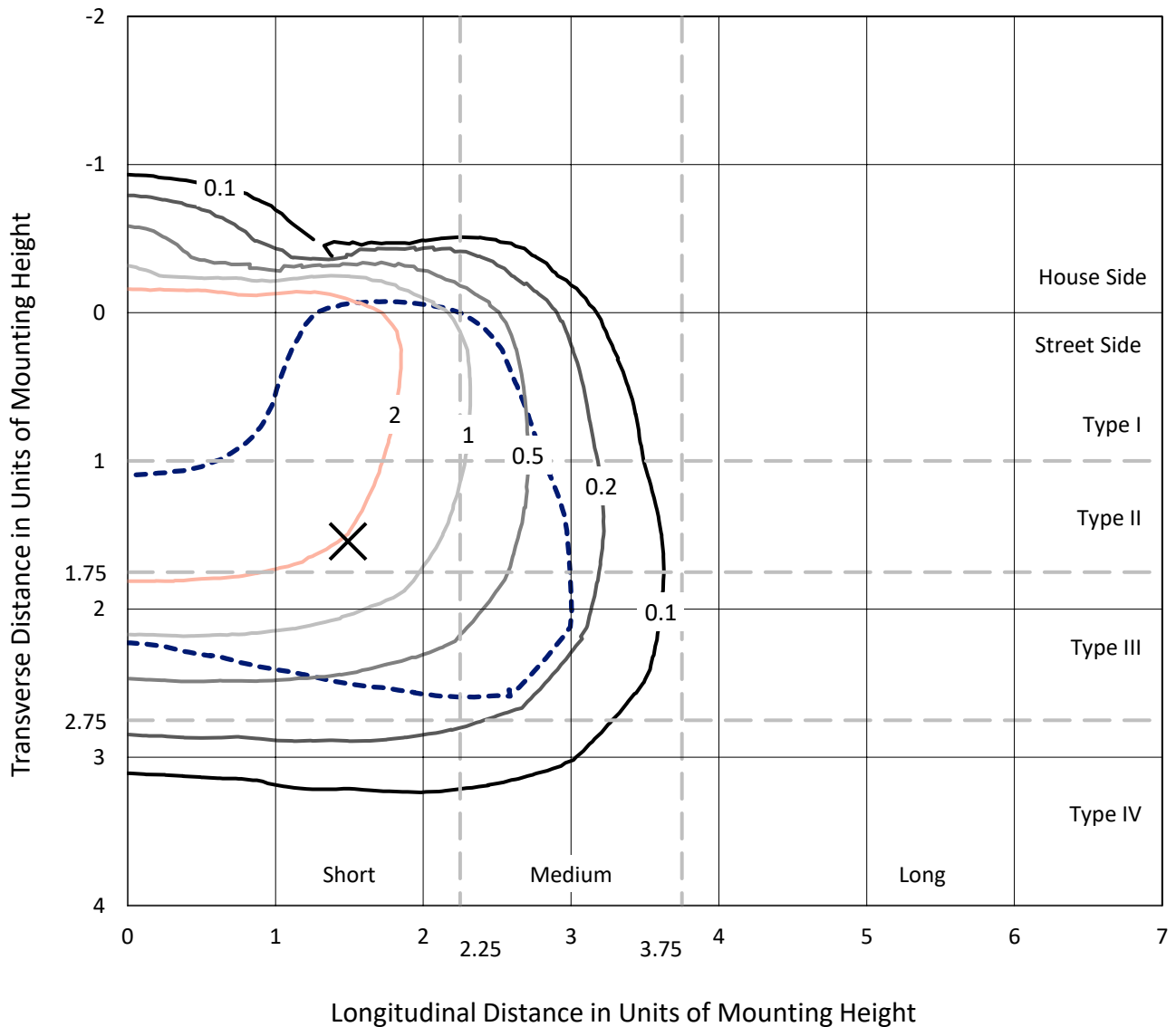
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

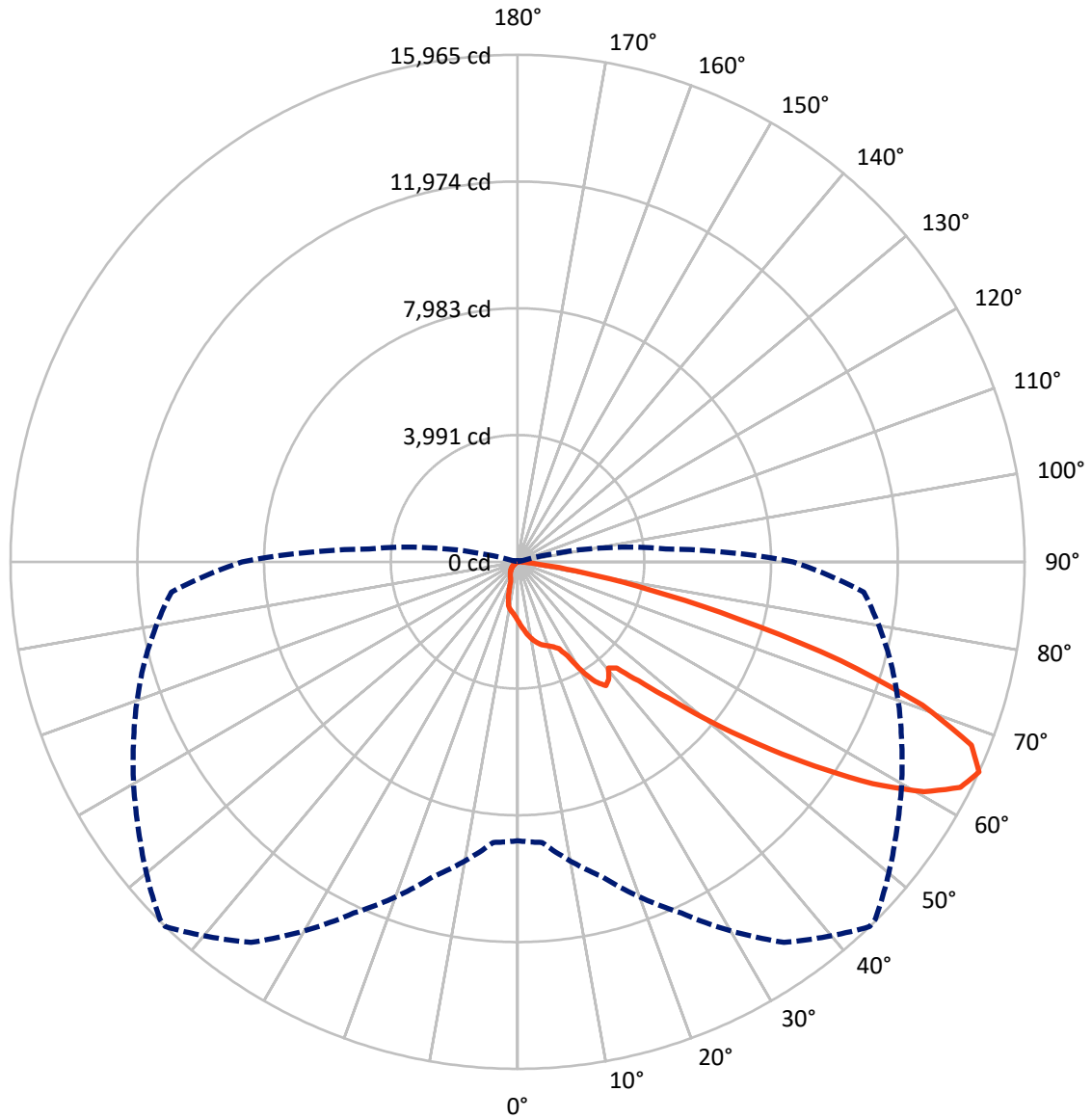
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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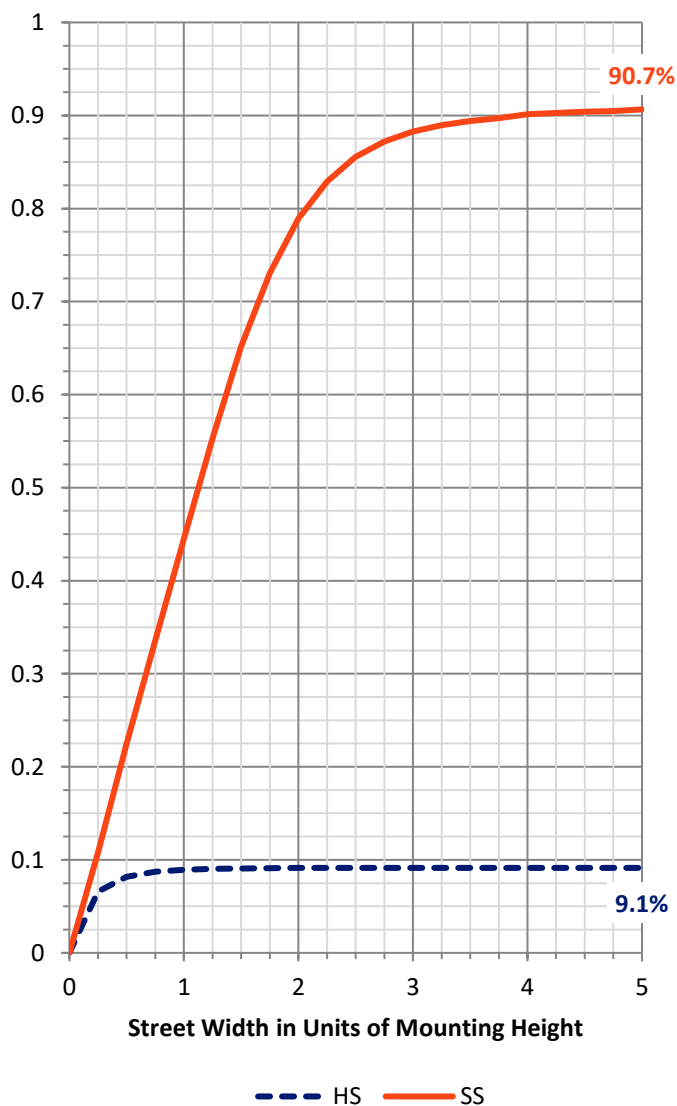
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.4	0.0	1837.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18104.8	0.0	18104.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	19942.2	0.0	19942.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	0.9
10°-20°	555.6	2.8
20°-30°	942.1	4.7
30°-40°	1566.4	7.9
40°-50°	2734.9	13.7
50°-60°	5343.0	26.8
60°-70°	6199.2	31.1
70°-80°	2257.4	11.3
80°-90°	159.1	0.8
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°	19942.2	100.0
0°-180°	19942.2	100.0

Coefficient of Utilization

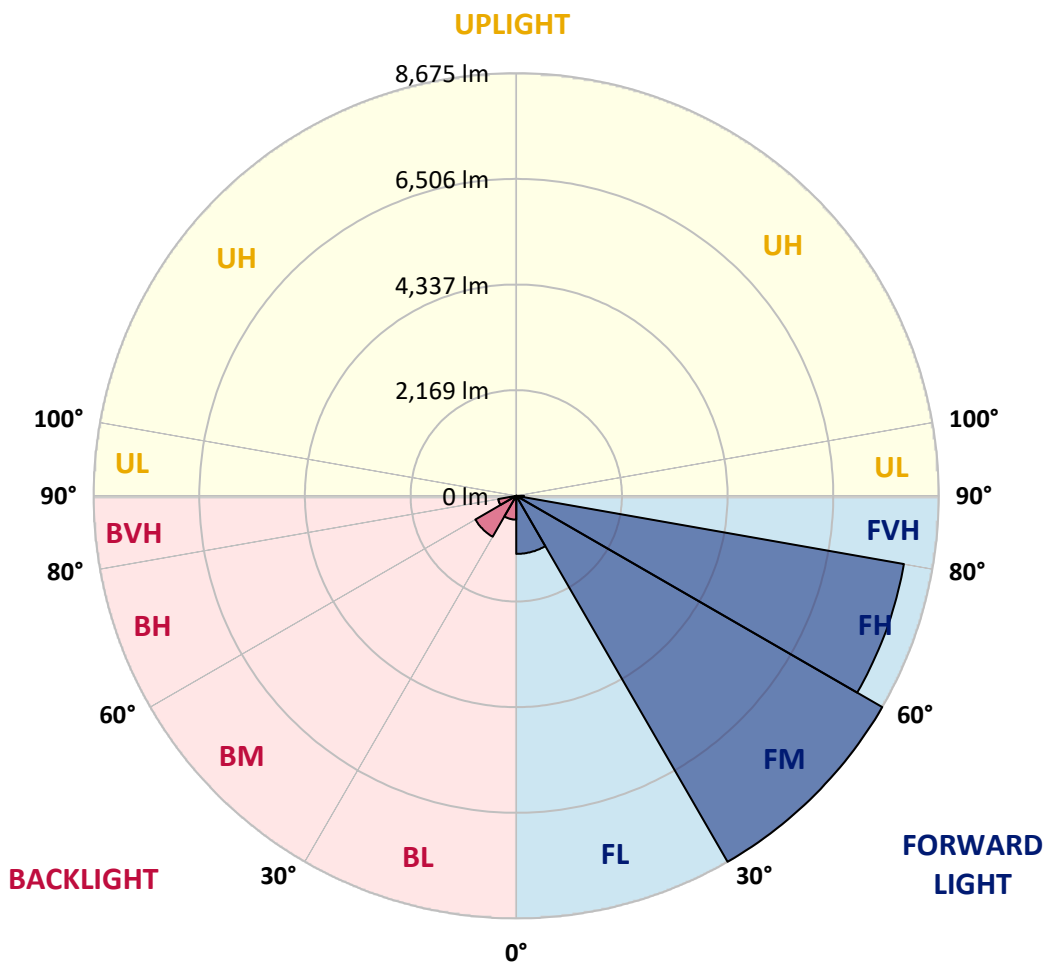


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.7	6.0			
FM (30°-60°)	8674.9	43.5			
FH (60°-80°)	8080.3	40.5			G4/12000
FVH (80°-90°)	156.9	0.8			G2/225
BL (0°-30°)	489.5	2.5	B1/500		
BM (30°-60°)	969.4	4.9	B1/1000		
BH (60°-80°)	376.3	1.9	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0
2.5°	2089.2	2080.0	2075.4	2051.1	2032.8	2010.0	2010.0	1981.0	1947.5	1910.9	1877.4
5°	2322.3	2307.1	2287.3	2265.9	2223.3	2162.3	2162.3	2101.3	2031.3	1968.8	1900.2
7.5°	2546.3	2532.6	2499.1	2457.9	2387.8	2323.9	2319.2	2230.9	2147.1	2052.6	1955.1
10°	2742.9	2732.2	2703.3	2624.1	2550.9	2467.1	2465.6	2366.5	2269.0	2153.2	2032.8
12.5°	2880.0	2881.6	2843.5	2767.3	2672.8	2593.5	2587.5	2489.9	2387.8	2262.9	2115.0
15°	2977.6	2977.6	2938.0	2852.6	2767.3	2697.2	2691.1	2605.7	2500.6	2365.0	2205.0
17.5°	3005.0	3014.2	2971.5	2895.3	2826.7	2765.8	2764.2	2692.6	2608.8	2477.7	2296.4
20°	2994.3	3003.5	2969.9	2910.5	2863.3	2828.2	2823.7	2794.7	2717.0	2593.5	2393.9
22.5°	2971.5	2980.6	2956.2	2921.2	2898.4	2909.0	2901.4	2925.8	2884.7	2735.3	2509.7
25°	2976.0	2985.2	2966.9	2947.1	2966.9	3032.4	3052.2	3157.4	3120.8	2915.1	2634.7
27.5°	3119.3	3137.6	3111.6	3120.8	3190.9	3343.3	3381.4	3562.7	3401.2	3143.7	2829.8
30°	3437.8	3425.5	3376.8	3421.0	3664.8	3987.9	3977.2	3948.3	3695.3	3407.3	3061.4
32.5°	3727.3	3716.6	3713.6	3904.0	4346.0	4503.0	4495.3	4214.9	3958.9	3709.0	3289.9
35°	3844.6	3803.5	3794.3	4256.1	4995.1	4787.9	4740.7	4324.7	4278.9	4038.2	3523.1
37.5°	4198.1	4169.2	4027.5	4313.9	4736.1	4667.5	4630.9	4513.6	4620.2	4329.2	3786.7
40°	4926.6	4845.8	4717.8	4437.4	4368.8	4397.8	4434.4	4755.9	5024.0	4726.9	4138.7
42.5°	5831.7	5813.4	5575.7	5053.0	4539.5	4579.1	4626.4	5261.8	5604.6	5325.8	4713.2
45°	6918.2	6944.1	6601.2	5984.1	5310.5	5344.1	5412.6	6008.4	6390.9	6256.9	5616.9
47.5°	7905.6	7885.8	7770.0	7128.5	6506.7	6432.1	6543.3	6967.0	7479.0	7500.3	6738.4
50°	8899.2	9004.3	8832.2	8580.7	8119.0	7962.0	7920.9	8128.1	8908.3	8806.2	8085.4
52.5°	10327.0	10381.9	10058.8	9994.8	10099.9	9591.0	9549.9	9600.1	10298.0	9947.5	9094.2
55°	11224.5	11192.5	11072.2	11572.0	11988.0	11352.6	11300.7	11098.1	11451.6	10753.6	10064.9
57.5°	11508.0	11553.7	11834.1	12737.7	13722.1	13182.7	13088.2	12512.2	12283.6	11504.9	10957.9
60°	11381.5	11465.3	12070.3	13414.3	14779.7	14698.9	14618.1	13650.5	12881.0	12132.7	11584.2
62.5°	10480.9	10598.2	11565.8	13293.9	15137.7	15642.1	15541.5	14360.6	13278.7	12437.5	11693.9
65°	8783.4	8870.2	10260.0	12201.3	14628.8	15965.2	15928.6	14583.1	13341.1	12158.7	10942.7
67.5°	6261.4	6557.1	7844.7	10282.8	13123.2	15413.6	15476.0	14316.4	12754.4	10953.3	9062.2
70°	3936.1	4137.2	5060.6	7361.6	10520.5	13522.5	13728.2	13095.8	11069.1	8538.0	6066.4
72.5°	1877.4	2026.7	2685.0	4659.9	7425.7	10639.4	10802.4	10750.7	8559.4	5379.1	3130.0
75°	836.6	892.9	1281.5	2378.7	4794.0	7151.4	7573.4	7643.6	5348.7	2631.7	1217.6
77.5°	426.7	428.2	600.4	1152.0	2393.9	4266.7	4350.5	4595.9	2899.8	1159.6	423.6
80°	227.1	242.3	318.4	544.0	1241.9	2101.3	2090.7	2297.9	1286.1	568.4	141.7
82.5°	102.1	112.8	179.8	284.9	606.5	796.9	859.4	940.2	551.6	362.7	62.5
85°	30.5	36.6	88.4	143.2	219.4	230.1	257.5	332.2	312.4	257.5	32.0
87.5°	4.5	4.5	36.6	39.6	32.0	41.1	42.7	47.2	100.5	94.5	16.8
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°	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0	1856.0
2.5°	1859.1	1848.4	1810.3	1778.3	1750.9	1734.1	1714.3	1702.1	1696.1	1691.4	1693.0
5°	1866.7	1840.8	1775.3	1723.5	1683.8	1641.2	1612.2	1595.4	1587.8	1575.6	1575.6
7.5°	1909.3	1868.2	1776.8	1697.5	1629.0	1571.1	1516.2	1496.4	1482.7	1479.6	1476.6
10°	1970.3	1918.5	1793.5	1683.8	1586.3	1507.0	1429.4	1360.8	1307.5	1275.4	1270.9
12.5°	2046.5	1971.8	1819.5	1674.7	1549.7	1409.6	1203.9	1065.2	972.2	943.3	947.8
15°	2116.6	2035.8	1845.4	1667.1	1482.7	1168.8	935.6	777.1	729.9	725.4	726.9
17.5°	2200.4	2104.4	1875.8	1656.4	1298.3	892.9	694.8	652.2	661.3	676.6	675.0
20°	2287.3	2177.5	1912.4	1592.4	1036.2	672.0	614.1	618.6	632.4	646.1	649.2
22.5°	2380.2	2261.4	1955.1	1438.5	790.8	585.1	582.1	588.2	601.9	617.2	620.2
25°	2508.3	2366.5	1987.1	1237.4	598.8	541.0	547.1	557.7	569.9	586.7	589.8
27.5°	2672.8	2508.3	2003.9	975.2	518.1	501.4	502.8	518.1	533.4	548.6	548.6
30°	2886.1	2677.4	1970.3	737.5	478.5	463.2	457.1	466.3	486.1	501.4	502.8
32.5°	3076.6	2837.4	1881.9	563.8	449.5	428.2	413.0	414.5	422.1	431.3	432.8
35°	3267.1	2992.8	1731.1	473.9	419.1	394.7	371.8	359.6	353.5	349.0	353.5
37.5°	3510.9	3186.3	1529.9	431.3	393.1	362.7	330.7	304.7	283.4	269.7	272.8
40°	3824.8	3454.5	1292.2	403.8	368.8	332.2	289.6	256.0	219.4	207.3	201.2
42.5°	4342.9	3861.4	1042.3	380.9	344.4	300.2	246.9	201.2	167.6	155.4	158.5
45°	5161.2	4374.9	803.0	356.6	320.0	265.1	207.3	158.5	131.1	125.0	128.0
47.5°	6246.1	5039.3	618.6	329.2	289.6	227.1	163.0	125.0	108.2	106.6	105.2
50°	7267.2	5658.0	516.5	298.6	253.0	188.9	134.1	105.2	94.5	92.9	92.9
52.5°	8190.6	6101.4	420.5	263.6	213.4	155.4	112.8	92.9	83.8	79.2	79.2
55°	9011.9	6390.9	341.3	221.0	167.6	123.4	97.6	83.8	73.1	67.0	65.5
57.5°	9632.2	6426.0	256.0	176.8	125.0	96.0	83.8	73.1	60.9	53.3	50.3
60°	9897.3	6122.7	188.9	134.1	92.9	76.2	67.0	59.4	45.7	38.1	36.6
62.5°	9630.6	5533.1	140.2	102.1	71.6	56.4	47.2	44.2	32.0	22.9	21.3
65°	8675.2	4681.2	111.3	77.8	53.3	41.1	30.5	29.0	19.8	10.6	9.2
67.5°	6950.2	3666.3	88.4	57.9	38.1	27.4	19.8	18.3	10.6	3.1	3.1
70°	4519.7	2343.7	71.6	42.7	24.4	18.3	12.2	9.2	6.1	1.5	0.0
72.5°	2235.5	1095.7	57.9	33.5	16.8	9.2	4.5	3.1	4.5	0.0	0.0
75°	867.1	390.1	42.7	22.9	9.2	4.5	3.1	0.0	1.5	0.0	0.0
77.5°	288.0	129.5	25.9	12.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
80°	106.6	50.3	13.7	7.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	42.7	19.8	9.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	12.2	6.1	4.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	9.2	6.1	4.5	3.1	1.5	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)