

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: P652419

Luminaire Tested: **GALN-SA5B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17256.5 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

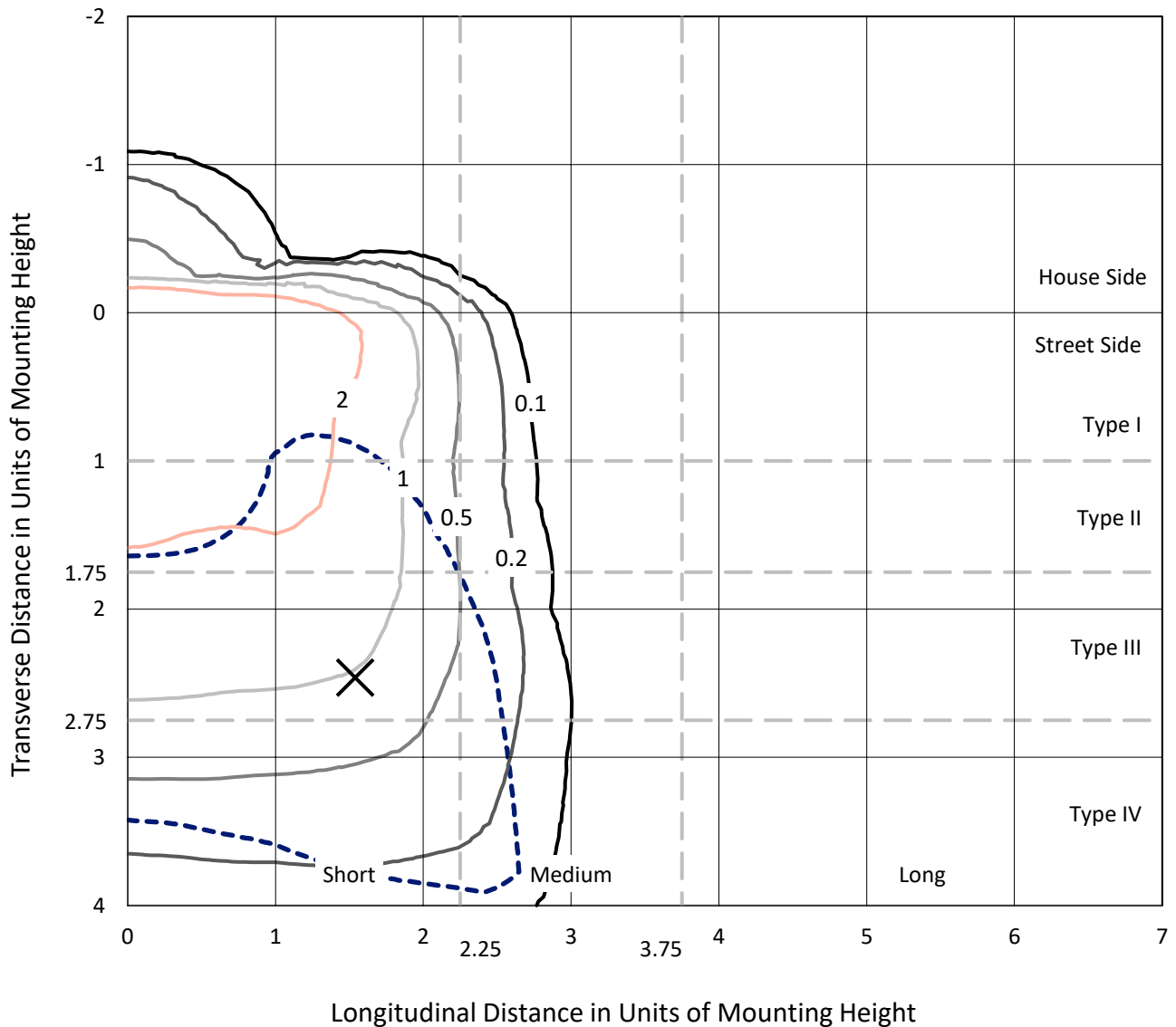
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

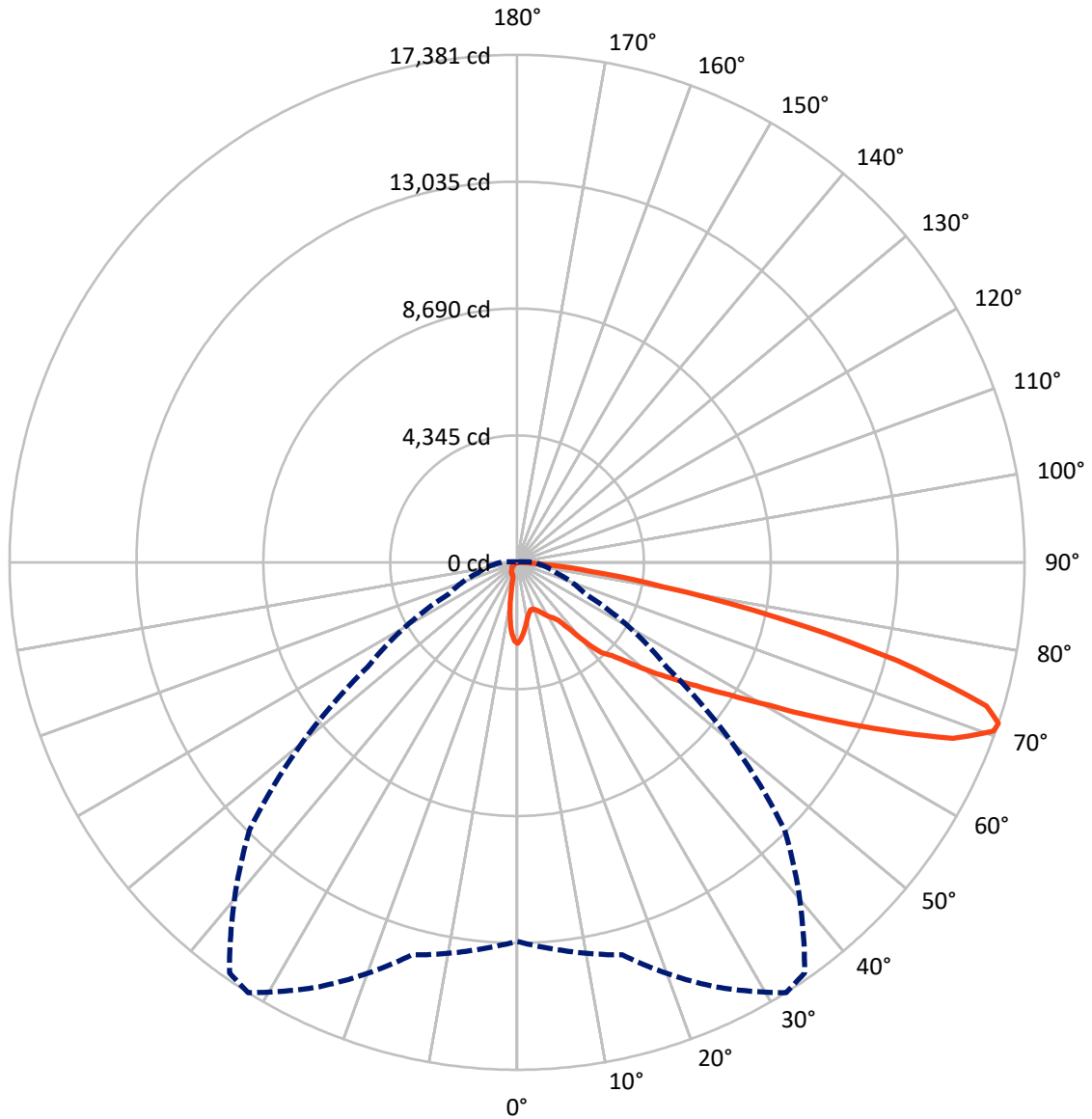
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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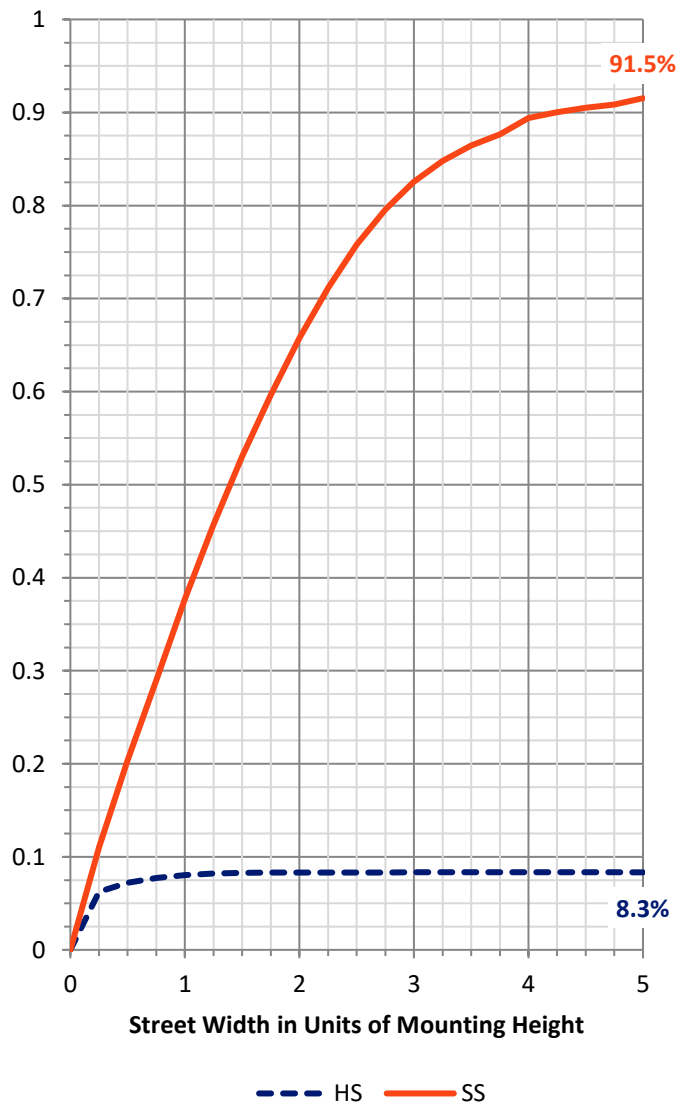
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.4	0.0	1445.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15811.1	0.0	15811.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	17256.5	0.0	17256.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	1.3
10°-20°	489.7	2.8
20°-30°	761.9	4.4
30°-40°	1269.3	7.4
40°-50°	2361.1	13.7
50°-60°	3790.9	22.0
60°-70°	5098.9	29.5
70°-80°	3025.2	17.5
80°-90°	233.8	1.4
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°	17256.5	100.0
0°-180°	17256.5	100.0

Coefficient of Utilization



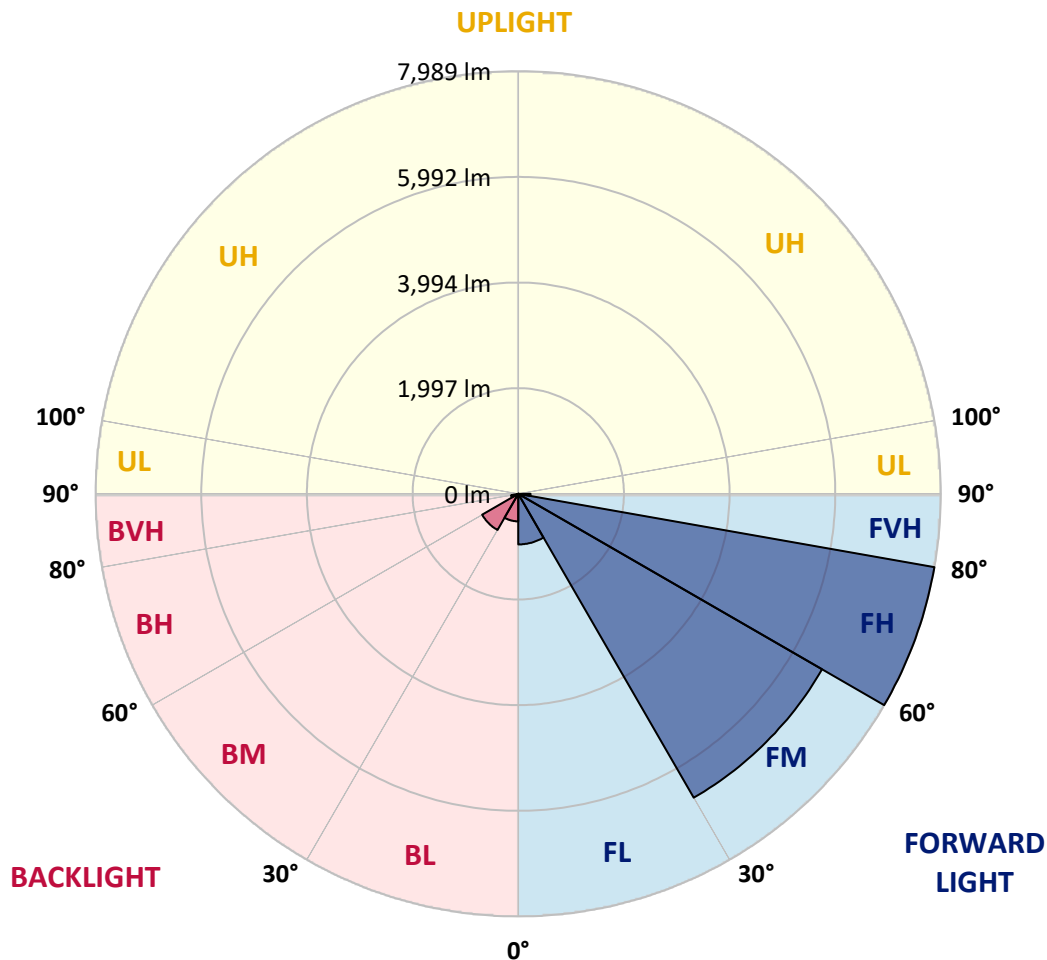
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.5	5.5			
FM (30°-60°)	6632.7	38.4			
FH (60°-80°)	7988.9	46.3			G4/12000
FVH (80°-90°)	232.9	1.3			G3/500
BL (0°-30°)	520.8	3.0	B2/1000		
BM (30°-60°)	788.5	4.6	B1/1000		
BH (60°-80°)	135.2	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1
2.5°	2573.8	2600.3	2596.3	2605.6	2628.0	2637.4	2662.5	2690.4	2728.7	2755.2	2772.4
5°	2304.8	2324.8	2327.4	2373.7	2396.3	2421.4	2495.6	2576.4	2666.5	2738.0	2785.7
7.5°	2017.4	2028.0	2049.2	2110.2	2167.1	2192.2	2304.8	2445.3	2587.0	2720.8	2806.9
10°	1780.3	1792.3	1830.6	1895.5	1948.5	1981.6	2138.0	2314.2	2512.8	2711.6	2837.4
12.5°	1645.2	1651.8	1666.4	1724.6	1792.3	1828.0	1996.2	2197.5	2453.2	2715.5	2889.0
15°	1635.9	1633.3	1616.1	1639.9	1700.8	1737.9	1902.2	2118.1	2400.2	2728.7	2950.0
17.5°	1684.9	1678.3	1637.3	1637.3	1687.6	1718.1	1862.5	2075.7	2373.7	2759.2	3036.1
20°	1760.5	1749.9	1682.3	1677.0	1726.0	1757.8	1886.3	2078.4	2379.0	2816.2	3151.3
22.5°	1855.8	1843.9	1741.9	1744.6	1797.6	1829.3	1955.2	2126.0	2412.2	2886.4	3274.5
25°	1980.3	1967.1	1846.6	1841.2	1896.9	1924.7	2057.2	2210.8	2458.5	2973.8	3436.1
27.5°	2145.9	2118.1	1973.7	1965.8	2025.4	2061.1	2180.4	2324.8	2540.7	3094.4	3653.3
30°	2282.3	2251.9	2114.1	2092.9	2156.5	2184.3	2307.5	2478.4	2702.2	3305.0	3954.0
32.5°	2461.2	2416.1	2254.6	2198.9	2266.4	2302.2	2491.6	2764.5	2942.0	3527.5	4311.7
35°	2863.9	2836.0	2638.6	2443.9	2440.0	2485.0	2763.2	3053.3	3188.4	3874.6	4799.2
37.5°	3440.1	3420.2	3210.9	2950.0	2874.5	2853.3	3093.0	3371.2	3581.8	4351.4	5366.1
40°	4109.0	4062.6	3870.6	3649.4	3551.4	3489.1	3482.5	3844.1	4095.8	4999.2	5956.9
42.5°	4588.5	4503.7	4270.6	4254.7	4233.5	4168.7	3980.5	4535.5	4759.4	5695.9	6588.7
45°	5091.9	4963.4	4616.3	4556.7	4548.8	4544.8	4732.9	5354.1	5482.6	6451.0	7237.8
47.5°	5482.6	5380.6	5095.9	5069.4	5102.5	5192.6	5727.7	6223.1	6196.7	7123.9	7782.2
50°	6003.2	5926.4	5609.8	5660.2	5831.1	5978.1	6849.7	7170.3	6783.4	7653.8	8178.3
52.5°	6617.9	6476.1	6182.1	6318.5	6580.8	6825.8	8040.5	7999.5	7195.4	8052.5	8473.7
55°	7150.4	7049.7	6949.0	7090.8	7482.9	7788.8	9116.1	8620.8	7494.8	8373.0	8603.5
57.5°	8051.1	8027.3	7924.0	8068.4	8543.9	8861.8	10079.1	9102.9	7686.8	8539.9	8451.2
60°	9383.7	9345.3	9153.2	9337.4	9957.3	10456.7	10966.6	9536.0	7730.6	8475.0	8012.7
62.5°	10986.5	10855.4	10691.1	10962.7	11813.1	12033.0	11802.5	9793.0	7567.7	7958.4	6955.7
65°	12483.4	12348.2	12352.2	12924.5	13850.4	14000.0	12777.4	9754.6	7090.8	6664.3	5130.4
67.5°	13629.2	13606.6	13768.3	14884.9	16095.6	15992.3	13649.0	9179.7	5677.4	4319.6	2726.1
70°	13687.4	13731.2	14194.8	16079.8	17309.0	17144.8	13574.8	7461.7	3539.4	1986.9	1074.3
71°	12982.8	13276.8	13918.0	16042.7	17380.5	17167.2	12949.6	6249.6	2596.3	1385.5	774.9
72.5°	11063.4	11218.4	12603.9	15098.2	16815.0	16359.2	11364.0	4380.6	1662.4	847.7	445.1
75°	6093.3	6474.9	8440.6	11844.9	13449.0	13049.0	7406.0	2081.0	829.2	463.6	184.1
77.5°	2900.9	2826.8	4118.3	7044.4	9118.8	9097.6	3731.5	924.6	483.5	313.9	92.8
80°	829.2	932.6	1576.3	3348.7	5062.7	5118.4	1433.2	446.4	335.1	245.1	47.7
82.5°	250.4	255.7	578.9	1480.9	2518.1	2373.7	537.8	227.8	241.1	194.7	27.8
85°	43.7	54.3	170.9	521.9	960.3	728.6	135.1	108.7	158.9	128.5	15.9
87.5°	2.7	4.0	56.9	59.6	84.8	49.0	23.9	15.9	34.5	34.5	9.3
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°	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1	2775.1
2.5°	2784.4	2792.4	2787.1	2775.1	2755.2	2731.4	2699.6	2673.1	2650.6	2638.6	2653.3
5°	2801.6	2812.2	2785.7	2726.1	2636.0	2538.0	2426.7	2340.7	2273.1	2251.9	2244.0
7.5°	2828.1	2834.8	2763.2	2630.7	2440.0	2208.1	2005.5	1834.6	1702.2	1662.4	1604.1
10°	2862.5	2858.6	2723.4	2477.1	2141.9	1793.5	1479.7	1246.4	1070.3	1006.8	1001.5
12.5°	2915.5	2894.3	2673.1	2267.8	1787.0	1331.2	943.2	737.8	626.5	589.5	581.6
15°	2981.8	2931.4	2593.6	2022.7	1368.3	859.7	581.6	519.2	504.7	502.1	499.4
17.5°	3059.9	2980.4	2489.0	1722.0	961.7	557.7	486.2	484.8	486.2	483.5	482.1
20°	3165.9	3032.1	2364.5	1365.7	635.8	470.3	463.6	463.6	465.0	463.6	463.6
22.5°	3278.5	3093.0	2210.8	1042.5	479.5	446.4	445.1	447.7	450.4	449.0	449.0
25°	3417.6	3172.5	2008.1	714.0	429.2	426.6	427.8	433.1	438.4	439.8	438.4
27.5°	3618.9	3270.6	1790.9	491.5	393.4	396.0	409.3	422.5	430.5	431.9	431.9
30°	3845.4	3379.1	1507.4	398.7	364.2	364.2	380.1	405.4	422.5	425.2	426.6
32.5°	4136.8	3505.0	1193.5	358.9	336.5	333.8	348.3	378.9	410.7	419.9	419.9
35°	4497.2	3653.3	887.5	333.8	316.6	310.0	317.9	343.0	384.2	410.7	413.3
37.5°	4919.7	3793.8	649.1	311.3	298.1	288.8	294.1	313.9	347.1	386.8	397.4
40°	5310.5	3918.3	484.8	292.8	279.5	272.9	276.9	286.1	313.9	351.0	357.7
42.5°	5737.0	4014.9	385.4	272.9	261.0	258.3	258.3	262.3	280.8	302.0	303.3
45°	6162.2	4049.4	323.2	249.0	241.1	243.7	242.4	239.8	247.7	245.1	245.1
47.5°	6465.5	4008.4	267.6	226.5	226.5	230.5	223.9	214.6	210.6	194.7	196.0
50°	6673.5	3858.7	219.9	200.0	210.6	215.9	202.7	188.1	173.5	156.3	152.3
52.5°	6759.6	3592.4	180.1	165.6	186.8	193.4	177.5	160.3	137.8	123.2	119.3
55°	6703.9	3263.9	149.7	135.1	157.6	165.6	149.7	129.9	104.6	88.7	86.1
57.5°	6459.0	2871.8	127.2	107.3	125.8	131.1	120.5	99.3	74.2	58.3	58.3
60°	6035.0	2466.5	103.4	84.8	94.0	102.0	91.4	71.6	50.4	35.7	33.1
62.5°	5175.3	2002.8	83.4	66.3	66.3	72.8	63.6	51.6	31.8	18.6	17.2
65°	3736.8	1373.6	66.3	49.0	47.7	47.7	39.8	34.5	18.6	8.0	5.3
67.5°	2030.7	774.9	53.0	37.1	33.1	31.8	25.1	19.8	8.0	1.3	0.0
70°	798.8	298.1	41.0	25.1	21.2	19.8	13.3	9.3	5.3	0.0	0.0
71°	541.8	205.3	35.7	21.2	17.2	14.5	10.6	8.0	4.0	0.0	0.0
72.5°	310.0	127.2	27.8	15.9	13.3	10.6	8.0	5.3	4.0	0.0	0.0
75°	135.1	64.9	17.2	11.9	9.3	6.6	5.3	4.0	1.3	0.0	0.0
77.5°	68.9	35.7	11.9	9.3	5.3	4.0	2.7	1.3	0.0	0.0	0.0
80°	38.4	18.6	8.0	5.3	4.0	2.7	1.3	1.3	0.0	0.0	0.0
82.5°	21.2	10.6	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.7	0.0	0.0	0.0	0.0	1.3	1.3	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)