

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: P383232

Luminaire Tested: **GLEON-SA5C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26581.7 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

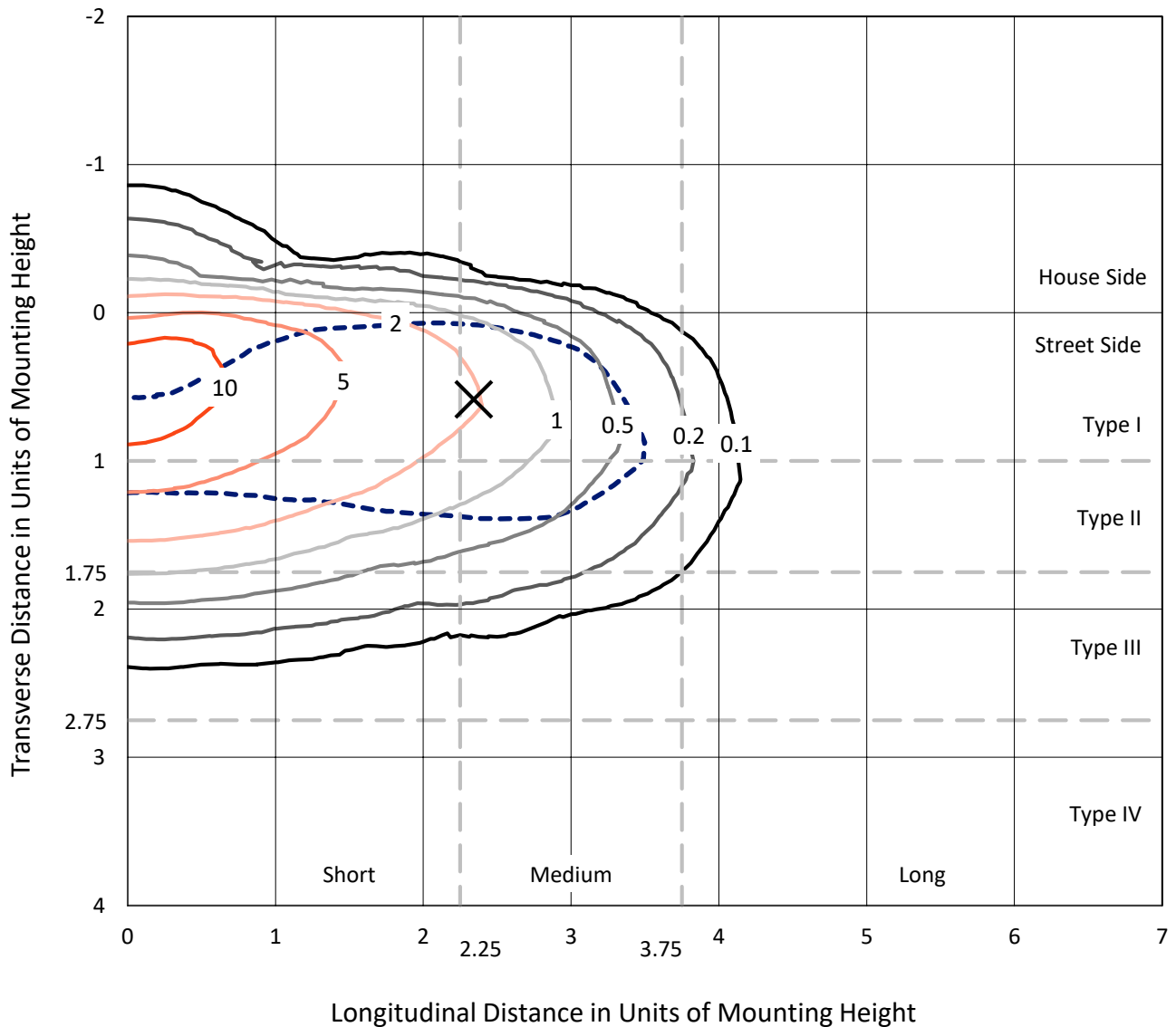
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

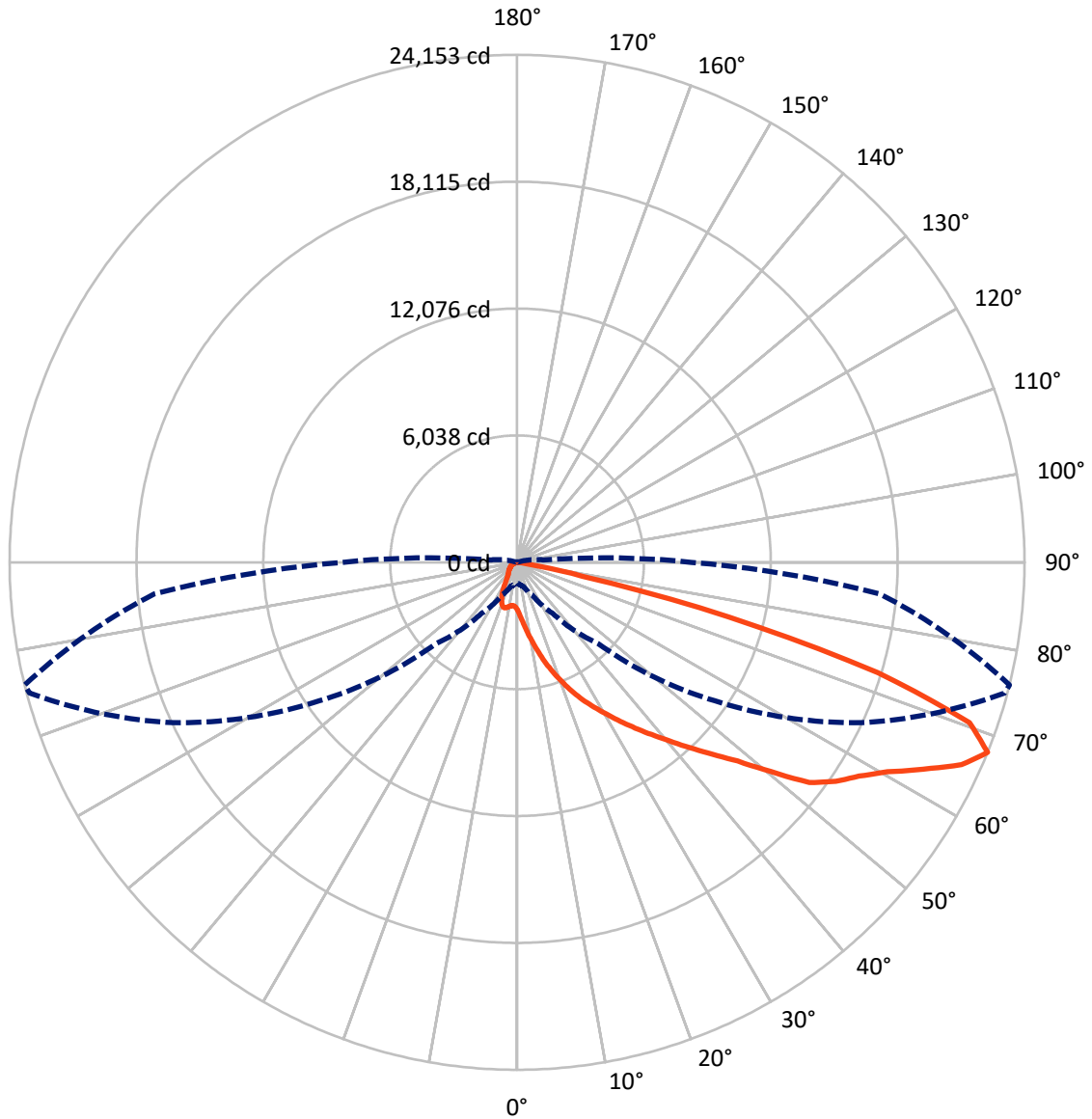
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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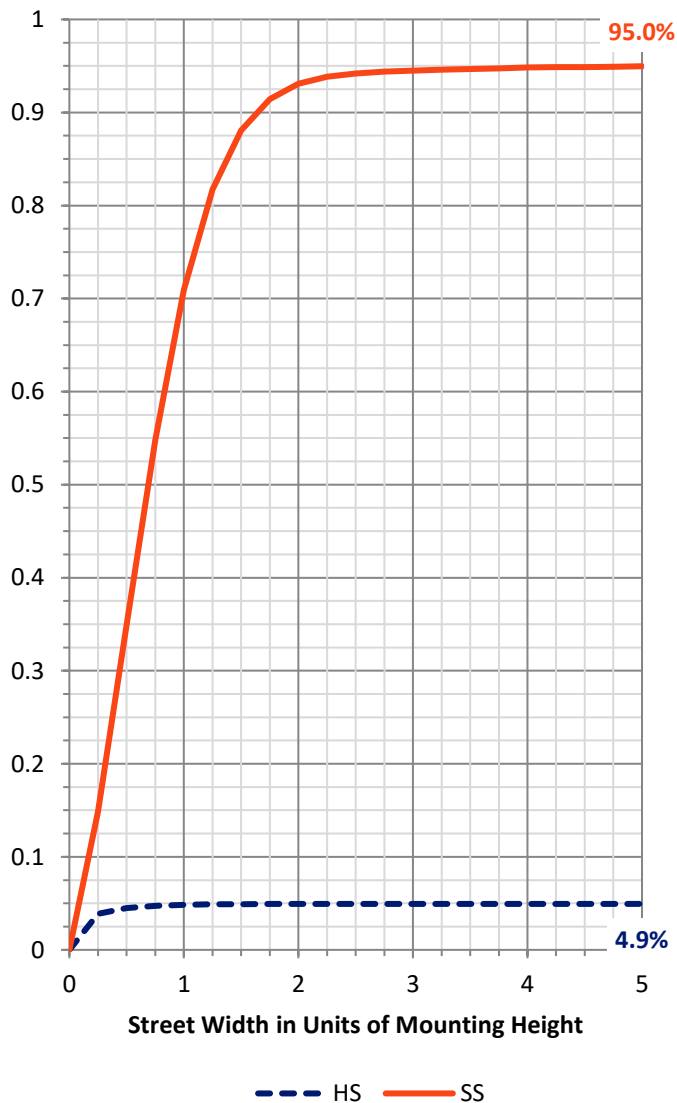
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.0	0.0	1320.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25261.7	0.0	25261.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	26581.7	0.0	26581.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	1.1
10°-20°	1111.5	4.2
20°-30°	2261.6	8.5
30°-40°	3925.4	14.8
40°-50°	5546.0	20.9
50°-60°	6289.5	23.7
60°-70°	5216.5	19.6
70°-80°	1889.6	7.1
80°-90°	61.3	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°	26581.7	100.0
0°-180°	26581.7	100.0

Coefficient of Utilization

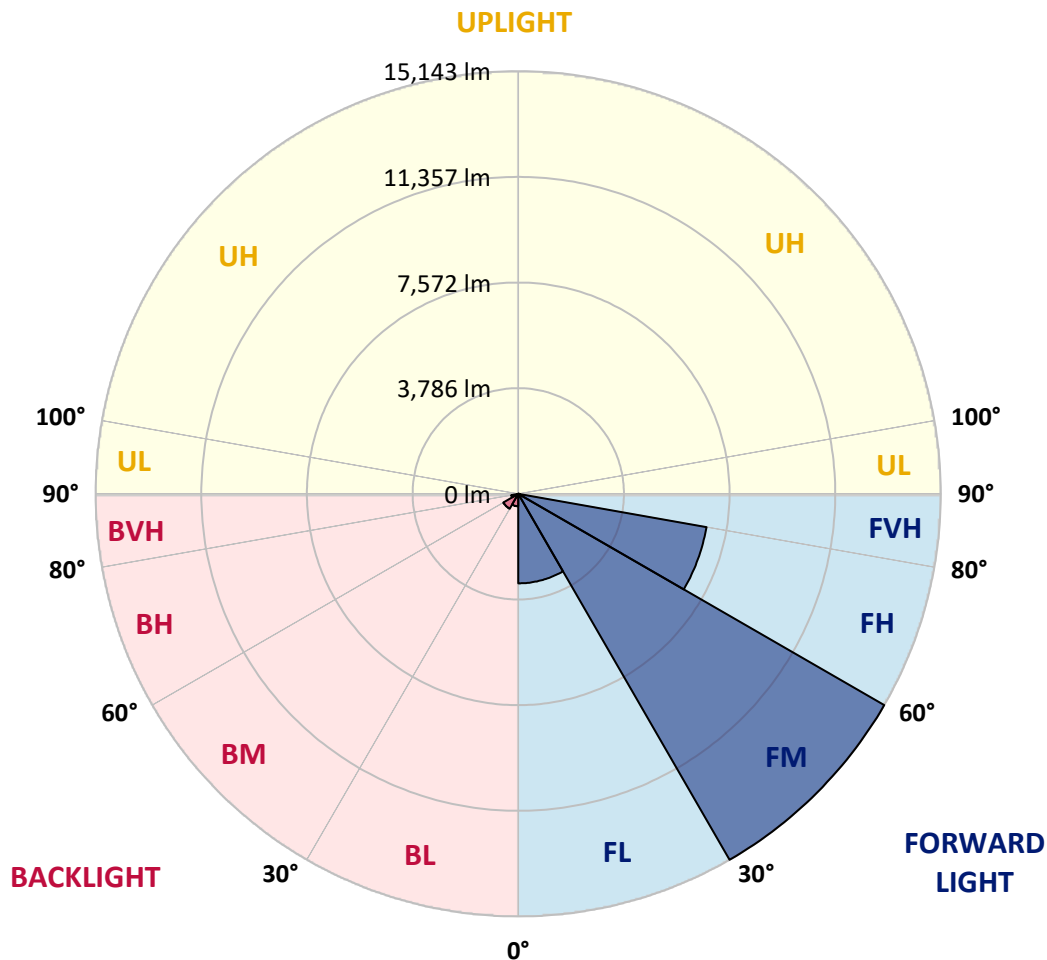


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3208.3	12.1			
FM (30°-60°)	15143.1	57.0			
FH (60°-80°)	6851.0	25.8			G3/7500
FVH (80°-90°)	59.4	0.2			G1/100
BL (0°-30°)	445.2	1.7	B1/500		
BM (30°-60°)	617.8	2.3	B1/1000		
BH (60°-80°)	255.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9
2.5°	3366.1	3290.3	3307.8	3258.9	3170.3	2988.7	2833.8	2687.0	2515.8	2510.0	2369.0
5°	4538.9	4474.9	4466.7	4367.7	4207.0	3898.3	3597.8	3255.4	2873.4	2845.4	2546.1
7.5°	5603.4	5552.2	5533.6	5415.9	5116.6	4816.1	4424.8	3921.6	3324.1	3272.9	2784.9
10°	6421.1	6396.7	6401.3	6317.5	6061.2	5781.7	5268.0	4626.3	3835.5	3756.2	3071.4
12.5°	7040.7	7046.6	7088.5	7037.3	6894.0	6686.6	6138.1	5377.5	4401.5	4293.1	3398.7
15°	7496.2	7525.2	7602.2	7666.2	7655.7	7476.3	6973.2	6140.4	5002.5	4882.5	3763.2
17.5°	7790.8	7823.4	7935.2	8077.4	8207.8	8165.9	7779.2	6876.5	5610.4	5471.8	4153.4
20°	8049.4	8087.8	8207.8	8395.3	8638.7	8691.2	8437.2	7590.5	6217.2	6048.4	4556.4
22.5°	8609.6	8608.4	8681.8	8791.3	9023.1	9158.2	8997.4	8253.2	6817.1	6641.3	4967.6
25°	9622.9	9584.5	9558.9	9472.6	9524.0	9607.8	9518.1	8872.8	7420.4	7242.2	5384.5
27.5°	10827.3	10850.6	10643.2	10411.4	10232.0	10145.9	9999.1	9447.0	8000.5	7804.8	5792.2
30°	12097.9	12104.9	11860.4	11564.5	11169.6	10842.4	10588.4	9995.6	8596.8	8383.6	6188.2
32.5°	13244.0	13198.6	12956.3	12553.3	12054.9	11686.8	11159.2	10608.3	9228.1	9021.9	6628.4
35°	14152.5	14099.0	13804.2	13437.4	12920.3	12549.9	11915.1	11219.7	9892.0	9690.5	7069.9
37.5°	14816.5	14753.5	14450.7	14073.4	13627.2	13411.8	12792.1	11884.8	10616.4	10399.8	7534.5
40°	15047.0	14992.3	14802.5	14526.4	14167.6	14118.7	13722.7	12650.0	11404.9	11174.3	8061.1
42.5°	14909.6	14856.0	14788.4	14695.3	14546.2	14592.8	14600.9	13522.4	12280.8	12053.7	8642.2
45°	14364.5	14316.8	14386.6	14522.9	14708.1	14938.7	15402.3	14460.0	13259.2	13016.9	9314.3
47.5°	13562.0	13527.1	13720.4	14060.5	14602.1	15238.1	16134.9	15445.3	14357.5	14132.7	10152.8
50°	12420.6	12414.7	12801.4	13422.2	14255.0	15382.5	16891.9	16565.8	15883.3	15646.8	11318.8
52.5°	10643.2	10654.9	11415.5	12409.0	13645.9	15284.6	17378.8	18005.4	17658.3	17412.6	12328.6
55°	8950.9	9020.7	9560.0	10992.6	12711.8	14921.2	17546.5	18677.4	18637.8	18405.0	12889.9
57.5°	7293.5	7420.4	7939.9	9278.1	11347.8	14083.8	17454.5	18968.6	19367.0	19188.8	13630.7
60°	5497.4	5555.7	6154.4	7405.3	9597.3	12555.7	16787.1	19127.0	20364.0	20240.5	14705.8
62.5°	3497.7	3643.3	4174.4	5381.0	7472.9	10433.6	15662.0	19124.7	21611.3	21679.0	16093.0
65°	1842.6	2012.6	2294.5	3334.6	5135.2	8063.4	13969.7	18945.3	23141.9	23236.2	17177.3
67.5°	993.5	1042.4	1191.5	1730.8	2978.2	5462.5	11483.0	18060.2	24028.2	24152.8	17328.7
70°	726.8	753.5	809.5	957.4	1499.0	3172.7	8379.0	16053.4	22885.6	22839.0	15396.4
72.5°	557.9	599.8	641.7	701.2	861.9	1693.5	5216.8	12570.9	18260.5	17953.0	11508.6
75°	440.2	447.2	506.7	560.2	646.4	964.4	2316.7	7321.4	11145.2	10417.2	5968.1
77.5°	351.8	356.4	391.3	437.9	519.4	633.6	717.5	2880.3	3558.2	3175.0	1295.1
80°	208.5	220.1	291.2	337.8	430.9	399.5	262.0	625.4	555.6	503.1	217.8
82.5°	116.4	125.8	164.2	266.7	300.5	191.1	130.4	168.9	130.4	127.0	61.8
85°	0.0	5.9	106.0	165.3	122.3	41.9	54.8	55.9	38.5	36.1	24.5
87.5°	0.0	0.0	32.6	31.5	4.7	7.0	12.9	18.6	15.2	15.2	12.9
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°	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9	2254.9
2.5°	2299.2	2236.3	2117.5	2001.0	1903.2	1822.8	1750.6	1721.5	1698.1	1694.7	1676.0
5°	2401.6	2274.7	2047.5	1861.2	1736.6	1648.1	1572.4	1525.8	1489.6	1475.7	1462.9
7.5°	2556.5	2364.4	2038.2	1824.0	1674.8	1525.8	1386.0	1234.6	1140.3	1104.2	1083.2
10°	2745.3	2483.2	2073.2	1813.4	1552.6	1238.1	1006.4	814.2	736.1	710.5	703.5
12.5°	2965.4	2631.1	2133.8	1748.2	1291.7	879.4	694.2	629.0	611.5	603.4	603.4
15°	3218.1	2793.0	2176.8	1559.6	955.1	665.0	601.0	570.8	552.0	541.6	542.7
17.5°	3476.7	2951.4	2155.9	1285.8	704.6	591.7	543.9	511.3	485.7	475.2	472.9
20°	3737.6	3098.1	2039.4	957.4	596.4	536.9	483.4	447.2	421.6	411.2	408.9
22.5°	4007.8	3222.8	1834.4	702.3	535.7	476.4	423.9	387.9	363.4	354.1	349.4
25°	4271.1	3324.1	1548.0	568.3	478.7	419.3	369.2	335.5	313.3	304.0	302.8
27.5°	4516.8	3388.1	1215.9	502.0	428.6	368.1	322.6	292.3	273.7	266.7	265.6
30°	4738.0	3394.0	899.1	453.1	384.4	323.8	281.9	255.1	238.8	231.8	229.4
32.5°	4961.7	3345.1	654.6	408.9	343.6	285.3	244.6	223.7	212.0	206.2	206.2
35°	5172.5	3232.1	510.1	370.4	304.0	248.1	215.5	200.4	193.4	187.5	187.5
37.5°	5378.7	3070.2	433.3	336.6	266.7	216.7	189.8	180.5	174.7	168.9	168.9
40°	5588.4	2866.4	393.7	305.2	236.4	192.2	168.9	160.7	154.9	150.3	149.0
42.5°	5845.7	2631.1	368.1	276.0	209.7	170.0	149.0	139.7	135.1	130.4	128.1
45°	6143.9	2428.5	347.1	247.0	187.5	151.4	129.3	120.0	113.0	107.1	106.0
47.5°	6573.7	2281.7	319.1	215.5	166.6	131.6	111.8	101.4	90.8	85.1	83.8
50°	7122.2	2160.5	283.0	187.5	145.6	111.8	93.2	80.4	71.1	65.2	65.2
52.5°	7394.8	2002.2	250.4	163.0	122.3	94.4	75.7	60.6	55.9	50.1	50.1
55°	7504.3	1881.0	217.8	138.6	101.4	78.1	59.4	46.6	43.1	39.6	38.5
57.5°	7811.8	1846.0	189.8	117.7	83.8	61.8	45.5	34.9	32.6	27.9	27.9
60°	8306.8	1863.6	164.2	100.1	67.5	47.8	33.8	26.8	24.5	19.8	19.8
62.5°	8841.4	1841.4	138.6	86.2	52.4	34.9	23.3	19.8	19.8	11.6	10.5
65°	8943.9	1639.9	118.8	71.1	40.8	25.6	15.2	12.9	17.5	2.3	0.0
67.5°	8300.9	1271.8	102.5	54.8	30.3	19.8	11.6	5.9	15.2	0.0	0.0
70°	6637.7	808.3	82.7	39.6	23.3	16.3	9.3	2.3	11.6	0.0	0.0
72.5°	4693.8	469.4	65.2	27.9	19.8	12.9	7.0	0.0	7.0	0.0	0.0
75°	2373.7	250.4	40.8	21.0	15.2	9.3	4.7	0.0	1.2	0.0	0.0
77.5°	513.7	116.4	25.6	15.2	10.5	5.9	2.3	0.0	0.0	0.0	0.0
80°	111.8	51.2	16.3	9.3	5.9	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	26.8	8.2	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	14.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.7	1.2	1.2	0.0	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)