

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: P647264

Luminaire Tested: **GALN-SA2D-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9980.1 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

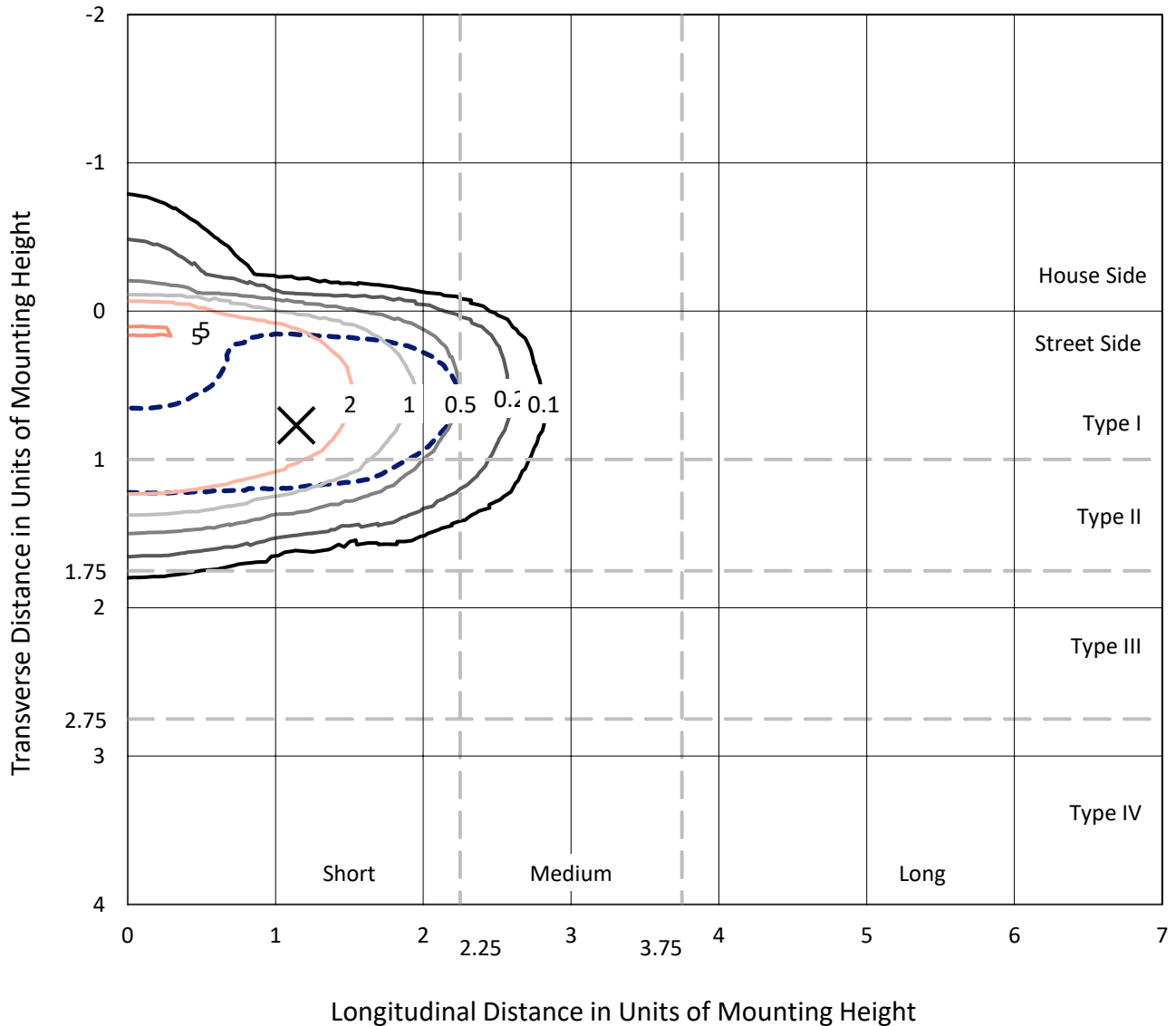
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

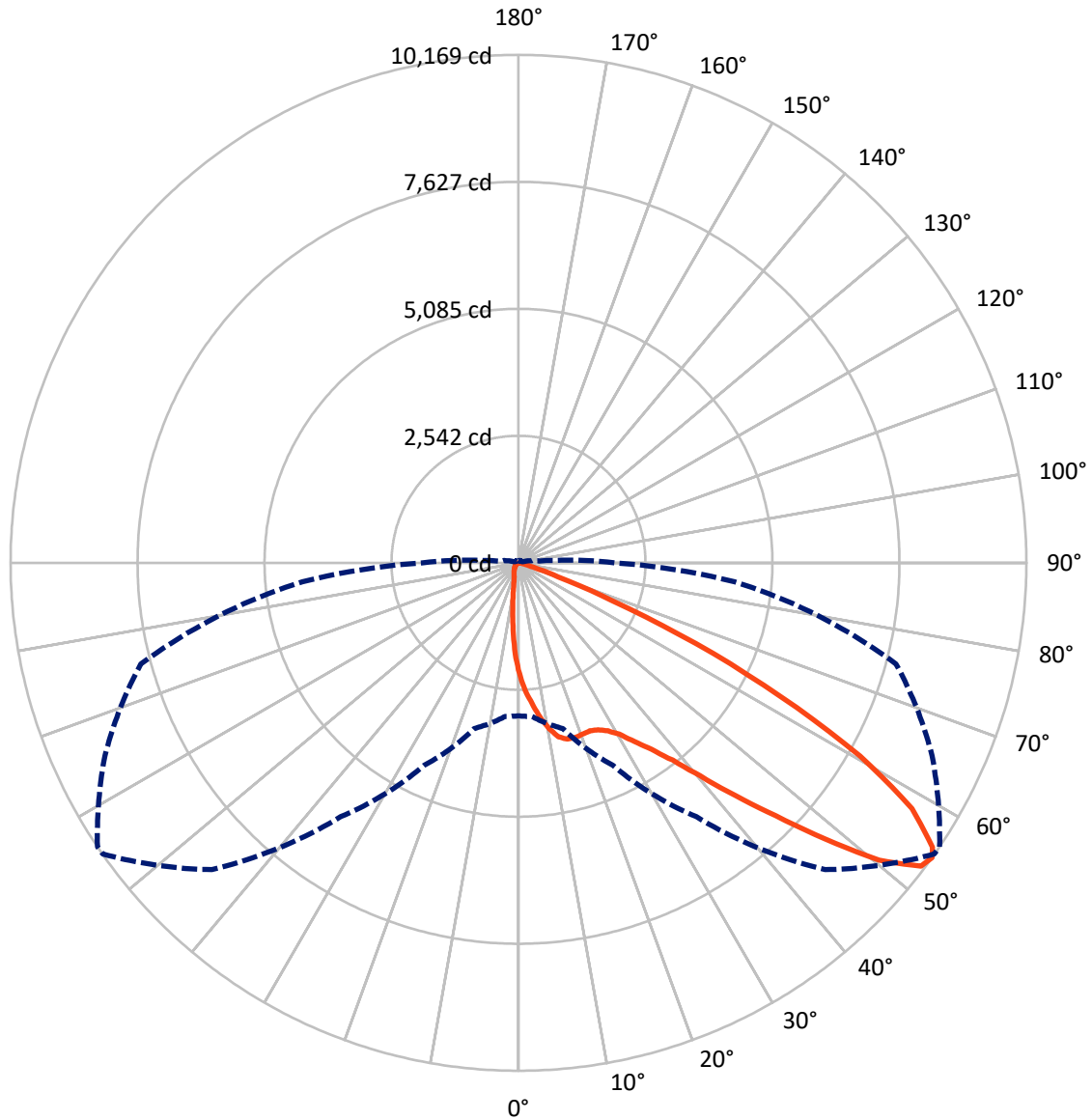
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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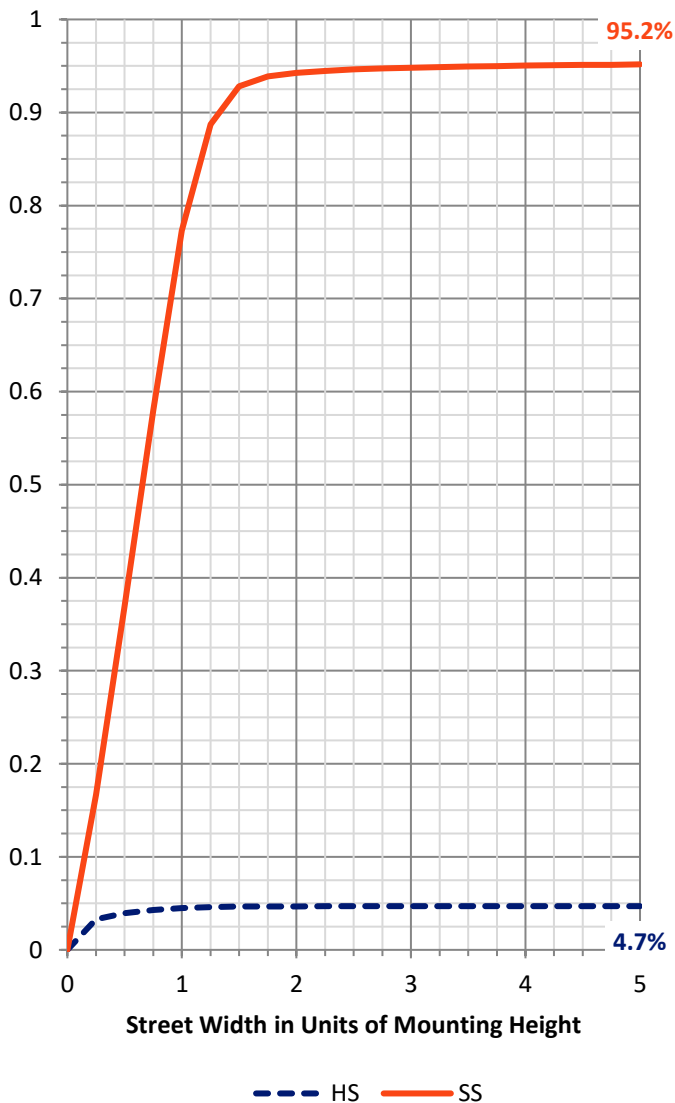
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	471.9	0.0	471.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9508.2	0.0	9508.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	9980.1	0.0	9980.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	2.0
10°-20°	529.7	5.3
20°-30°	917.3	9.2
30°-40°	1583.5	15.9
40°-50°	2695.2	27.0
50°-60°	2667.2	26.7
60°-70°	1217.4	12.2
70°-80°	156.3	1.6
80°-90°	17.6	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°	9980.1	100.0
0°-180°	9980.1	100.0

Coefficient of Utilization



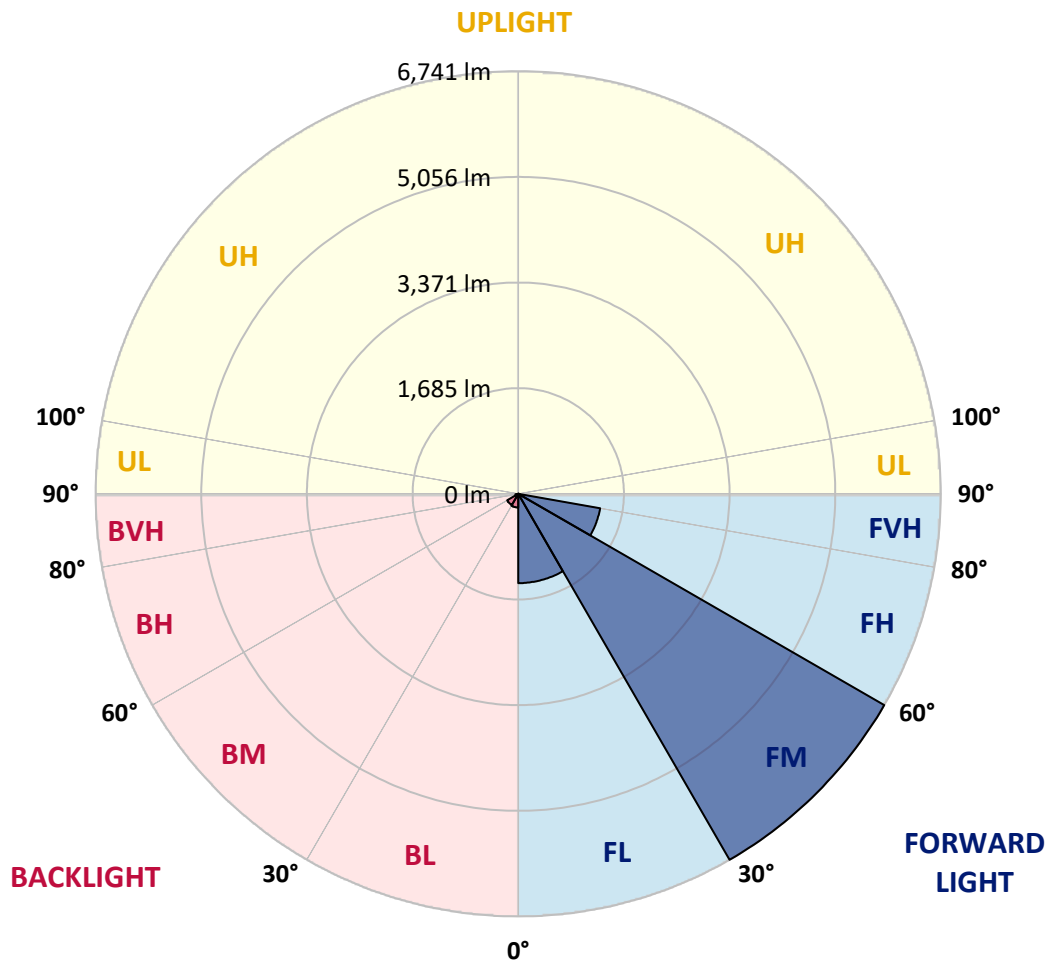
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.7	14.3			
FM (30°-60°)	6741.3	67.5			
FH (60°-80°)	1326.4	13.3			G1/1800
FVH (80°-90°)	15.7	0.2			G1/100
BL (0°-30°)	218.3	2.2	B1/500		
BM (30°-60°)	204.5	2.0	B0/220		
BH (60°-80°)	47.3	0.5	B0/110		G0/110
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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3
2.5°	2817.9	2798.4	2771.4	2750.6	2701.4	2630.7	2555.9	2555.9	2483.9	2383.6	2281.3
5°	3250.2	3237.4	3211.2	3157.3	3102.1	3003.0	2852.9	2826.6	2698.1	2516.2	2325.0
7.5°	3425.9	3432.0	3433.4	3419.2	3393.0	3295.3	3146.5	3128.3	2922.9	2679.2	2382.3
10°	3257.6	3287.2	3316.2	3374.7	3457.6	3481.1	3397.0	3378.1	3176.2	2844.2	2444.2
12.5°	3007.1	3023.2	3039.4	3131.7	3298.0	3488.6	3576.7	3576.1	3405.0	3008.4	2523.0
15°	2890.6	2904.8	2906.1	2947.2	3091.3	3368.7	3653.6	3663.7	3628.6	3211.2	2607.9
17.5°	2914.9	2926.3	2916.9	2927.0	3002.4	3236.7	3644.8	3678.5	3809.8	3405.7	2684.6
20°	3073.1	3095.4	3058.9	3030.7	3053.5	3201.7	3615.1	3662.2	3937.7	3595.6	2754.6
22.5°	3357.3	3369.4	3323.6	3246.2	3205.8	3275.1	3607.0	3653.6	4046.8	3751.1	2795.0
25°	3673.1	3669.0	3618.5	3531.6	3446.8	3423.3	3660.3	3702.0	4137.0	3891.2	2807.1
27.5°	3988.8	4001.0	3916.1	3808.4	3706.7	3645.4	3779.5	3810.4	4238.6	4050.8	2821.9
30°	4355.8	4336.3	4252.8	4129.5	4013.1	3927.6	3971.3	3980.1	4378.7	4262.2	2861.0
32.5°	4833.2	4779.4	4685.7	4470.3	4386.8	4242.0	4252.8	4263.6	4549.1	4471.6	2908.1
35°	5480.9	5478.3	5295.1	5004.9	4801.6	4621.8	4574.7	4583.4	4806.9	4782.7	3012.5
37.5°	6260.7	6271.4	6062.7	5770.5	5396.1	5110.6	5013.6	5015.0	5198.8	5212.3	3171.4
40°	6895.6	6923.9	6799.3	6602.0	6232.4	5786.0	5623.0	5608.2	5749.6	5732.8	3398.3
42.5°	7169.0	7195.3	7241.7	7310.4	7107.1	6738.7	6354.3	6374.5	6417.5	6299.7	3652.9
45°	7035.0	7076.8	7259.3	7683.4	7874.6	7750.8	7292.2	7221.5	7039.1	6915.8	3908.7
47.5°	6476.8	6578.5	6883.5	7589.9	8259.2	8678.0	8350.7	8257.1	7661.2	7365.6	4071.7
50°	5559.1	5565.1	5990.0	6892.9	8059.8	9263.0	9431.4	9361.4	8241.0	7618.1	4153.8
52.5°	4029.9	4162.6	4551.7	5597.4	7196.6	9174.2	10120.3	10091.3	8838.9	7747.4	4272.3
54°	3063.6	3089.2	3435.3	4473.0	6204.8	8686.1	10162.6	10169.4	9135.8	7825.5	4342.4
55°	2511.6	2450.2	2813.9	3810.4	5528.1	8254.5	10024.0	10056.3	9269.2	7865.9	4394.2
57.5°	1190.5	1191.1	1469.2	2009.9	3462.3	6409.5	9176.2	9290.7	9284.0	7935.2	4553.8
60°	602.6	606.7	668.0	927.9	1710.3	4260.9	7587.1	7859.8	8569.5	7945.3	4606.3
62.5°	421.5	416.8	406.7	446.4	719.8	2165.5	5648.6	5885.7	7280.8	7560.9	4439.3
65°	360.9	350.8	322.5	316.5	363.6	862.6	3518.2	3904.7	5559.1	6546.8	3963.9
67.5°	308.4	304.4	278.7	263.2	257.2	375.7	1815.3	2018.7	3799.7	4705.9	3002.4
70°	261.9	259.9	244.5	224.9	208.0	224.9	673.3	834.3	2117.6	2533.8	1416.7
72.5°	212.7	214.8	217.5	192.5	175.1	159.6	287.5	334.7	886.1	905.6	495.6
75°	186.5	184.5	184.5	167.6	146.1	118.5	158.2	170.4	271.4	251.8	115.2
77.5°	131.3	126.6	148.1	138.0	121.8	84.2	90.2	95.6	112.4	96.3	53.9
80°	90.9	90.9	95.0	123.9	109.8	61.3	55.2	59.3	66.6	57.2	31.0
82.5°	51.2	52.5	61.9	66.0	64.0	41.1	36.3	37.0	44.5	39.1	19.5
85°	6.0	10.1	35.7	35.0	26.2	18.2	20.2	20.9	27.6	24.3	11.4
87.5°	0.7	1.3	7.4	9.4	6.7	7.4	7.4	7.4	9.4	10.8	8.1
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°	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3	2217.3
2.5°	2226.1	2174.9	2053.0	1911.6	1821.3	1674.6	1550.7	1461.2	1438.9	1395.9	1408.6
5°	2223.3	2117.0	1868.5	1605.9	1325.8	1117.0	961.5	839.0	785.1	749.4	724.5
7.5°	2224.7	2058.4	1659.8	1241.6	906.9	702.3	558.2	483.4	433.6	412.7	415.5
10°	2228.7	1992.4	1417.4	919.8	612.1	453.8	365.6	330.0	313.1	310.4	309.8
12.5°	2238.2	1920.4	1185.8	682.8	428.2	330.0	296.3	284.2	278.7	278.7	276.7
15°	2248.3	1840.9	993.2	507.7	330.0	283.4	268.0	261.9	258.5	258.5	257.9
17.5°	2248.3	1749.3	813.4	393.9	284.2	260.6	248.4	240.4	237.7	237.7	237.0
20°	2234.1	1643.0	653.8	317.1	257.9	239.0	226.9	218.1	214.8	213.4	212.7
22.5°	2185.0	1500.9	520.5	272.7	236.3	220.2	204.7	194.6	191.9	190.6	191.2
25°	2097.4	1340.6	412.1	239.7	216.8	197.3	183.8	176.4	173.7	173.7	174.4
27.5°	2007.2	1172.9	326.6	214.8	193.2	175.7	165.0	160.3	159.6	161.6	162.2
30°	1923.8	1004.6	264.7	194.6	172.3	157.5	150.2	148.8	148.8	149.5	150.2
32.5°	1830.8	857.2	221.5	177.1	155.5	142.7	138.7	138.7	140.1	140.1	141.4
35°	1772.2	730.5	194.6	160.3	142.7	131.9	129.3	130.0	131.9	134.7	136.0
37.5°	1740.6	629.5	177.1	146.8	130.6	123.2	120.5	121.8	126.6	131.3	131.9
40°	1743.3	553.5	162.9	135.3	121.2	113.1	111.1	115.2	119.9	124.6	125.2
42.5°	1772.9	496.9	149.5	121.8	113.1	101.7	101.0	105.1	107.0	111.8	112.4
45°	1807.9	455.9	135.3	107.7	98.3	88.2	88.9	92.2	95.0	102.3	103.7
47.5°	1818.7	427.6	119.2	91.6	80.8	77.4	78.1	80.1	85.5	92.2	92.9
50°	1830.8	410.1	103.7	77.4	68.7	68.0	68.7	70.0	73.4	76.1	75.4
52.5°	1882.6	409.4	90.9	67.3	58.6	59.9	60.6	59.9	57.2	53.2	51.8
54°	1931.1	411.4	84.9	62.6	53.9	55.9	55.2	51.8	45.1	41.1	39.1
55°	1970.2	413.4	81.5	59.3	51.2	51.8	52.5	45.8	37.0	33.0	31.6
57.5°	2046.9	408.7	73.4	51.8	45.1	42.4	41.7	30.3	20.2	17.5	16.1
60°	2008.6	368.9	66.6	44.5	38.4	34.4	28.3	16.8	10.1	7.4	7.4
62.5°	1857.7	313.1	59.3	36.3	31.6	26.2	14.8	9.4	4.7	2.7	2.0
65°	1661.8	263.2	53.2	29.0	24.9	16.8	8.1	6.0	2.0	0.0	0.0
67.5°	1235.6	195.3	45.1	22.9	18.9	10.8	5.4	3.4	0.7	0.0	0.0
70°	572.4	119.2	38.4	17.5	13.5	8.1	4.1	2.0	0.0	0.0	0.0
72.5°	164.3	74.8	31.6	12.8	9.4	6.7	3.4	1.3	0.7	0.0	0.0
75°	57.2	59.9	23.6	9.4	7.4	4.7	2.7	1.3	0.7	0.0	0.0
77.5°	34.4	48.5	14.8	8.1	6.0	4.1	2.7	1.3	0.7	0.7	0.0
80°	19.5	32.3	9.4	6.7	5.4	3.4	2.0	1.3	0.7	0.7	0.0
82.5°	10.8	15.5	7.4	6.0	4.7	3.4	2.0	1.3	0.7	0.7	0.7
85°	8.8	8.1	6.0	5.4	4.1	2.7	2.0	0.7	0.0	0.0	0.0
87.5°	6.7	5.4	5.4	5.4	4.1	2.7	2.0	0.7	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)