

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: P456017

Luminaire Tested: **GALN-SA7B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456017
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-SA7B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 23978 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

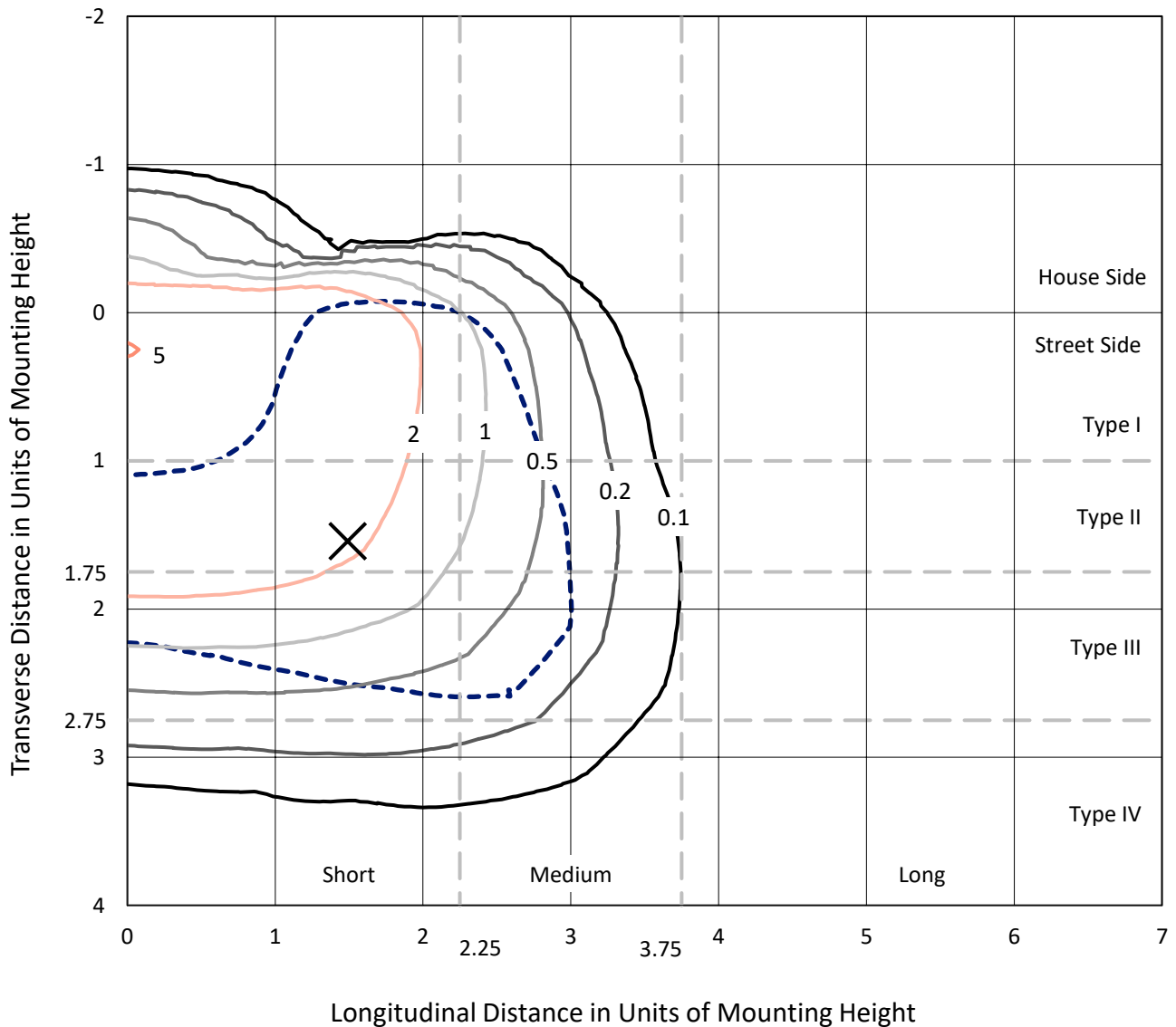
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

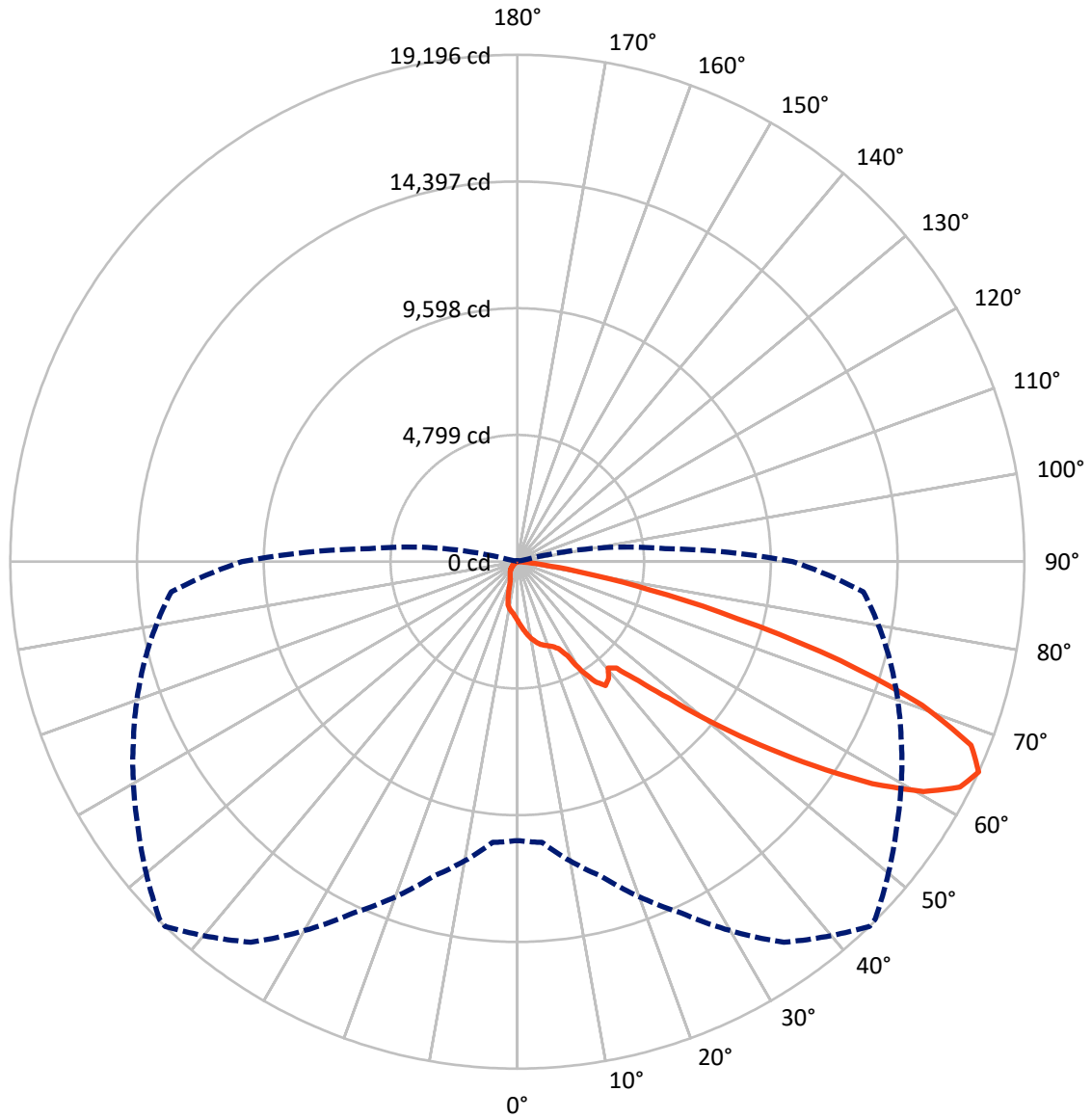
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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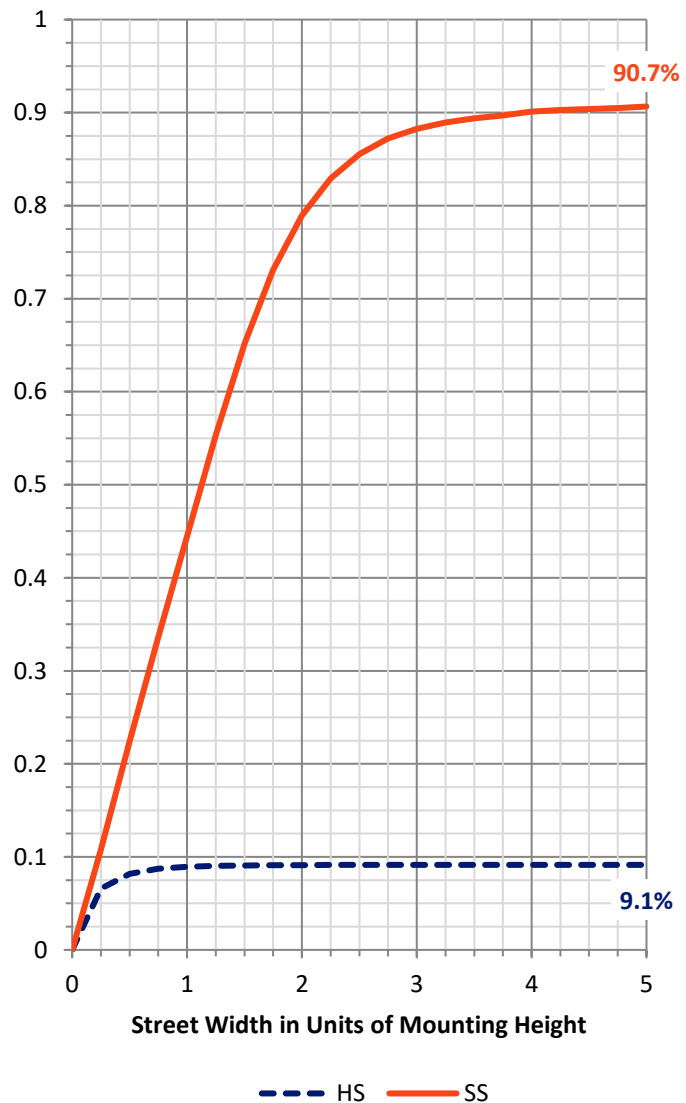
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2209.2	0.0	2209.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21768.8	0.0	21768.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	23978.0	0.0	23978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	0.9
10°-20°	668.0	2.8
20°-30°	1132.7	4.7
30°-40°	1883.4	7.9
40°-50°	3288.4	13.7
50°-60°	6424.3	26.8
60°-70°	7453.7	31.1
70°-80°	2714.3	11.3
80°-90°	191.2	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°	23978.0	100.0
0°-180°	23978.0	100.0

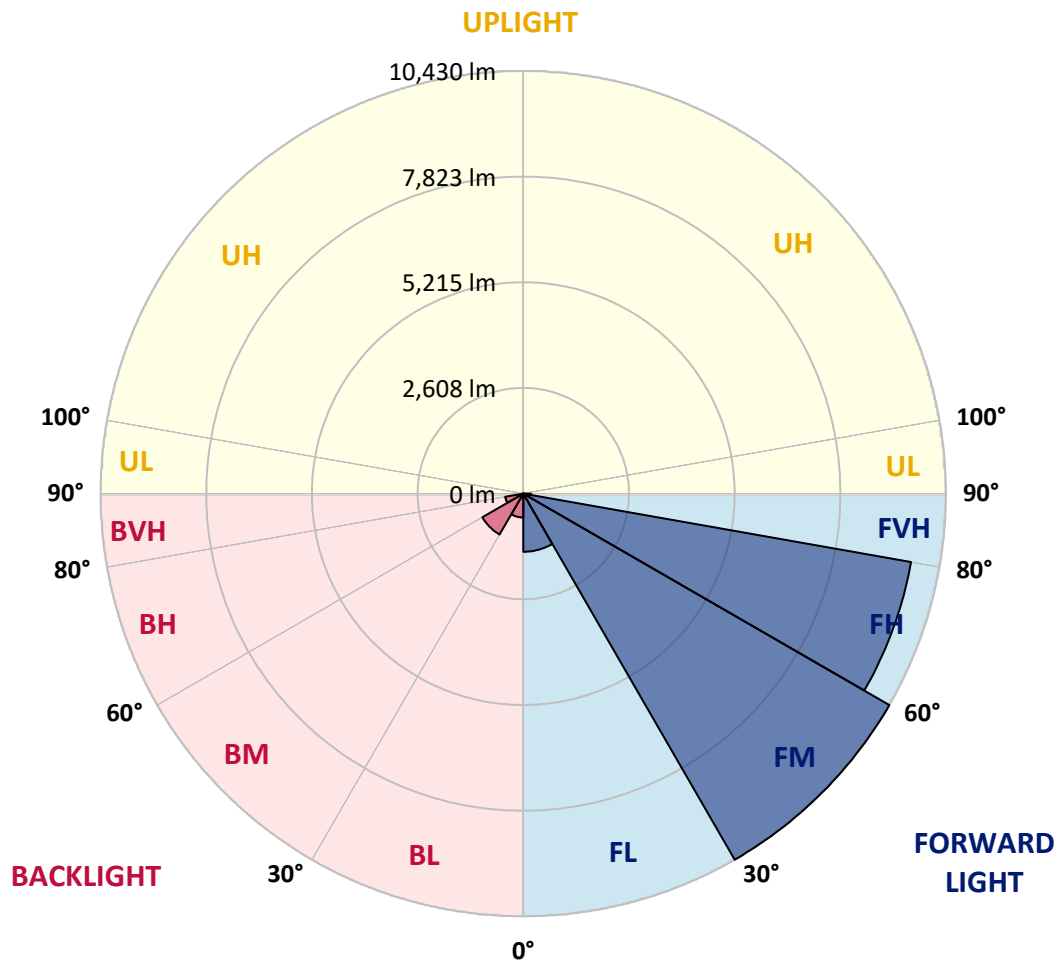


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1434.1	6.0			
FM	(30°-60°)	10430.5	43.5			
FH	(60°-80°)	9715.6	40.5			G4/12000
FVH	(80°-90°)	188.6	0.8			G2/225
BL	(0°-30°)	588.6	2.5	B2/1000		
BM	(30°-60°)	1165.6	4.9	B2/2500		
BH	(60°-80°)	452.4	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6
2.5°	2512.0	2501.0	2495.5	2466.2	2444.2	2416.7	2416.7	2381.9	2341.6	2297.6	2257.3
5°	2792.3	2774.0	2750.2	2724.5	2673.2	2599.9	2599.9	2526.6	2442.3	2367.2	2284.8
7.5°	3061.6	3045.1	3004.8	2955.4	2871.1	2794.1	2788.6	2682.4	2581.6	2468.0	2350.7
10°	3298.0	3285.2	3250.3	3155.1	3067.1	2966.4	2964.5	2845.4	2728.2	2588.9	2444.2
12.5°	3462.9	3464.7	3418.9	3327.3	3213.7	3118.4	3111.1	2993.8	2871.1	2720.8	2543.1
15°	3580.1	3580.1	3532.5	3429.9	3327.3	3243.0	3235.7	3133.1	3006.7	2843.6	2651.2
17.5°	3613.1	3624.1	3572.8	3481.2	3398.8	3325.5	3323.6	3237.5	3136.8	2979.2	2761.1
20°	3600.3	3611.3	3571.0	3499.5	3442.7	3400.6	3395.1	3360.3	3266.8	3118.4	2878.4
22.5°	3572.8	3583.8	3554.5	3512.4	3484.9	3497.7	3488.5	3517.9	3468.4	3288.8	3017.7
25°	3578.3	3589.3	3567.3	3543.5	3567.3	3646.1	3669.9	3796.3	3752.4	3505.0	3167.9
27.5°	3750.5	3772.5	3741.4	3752.4	3836.7	4019.9	4065.7	4283.7	4089.5	3779.9	3402.4
30°	4133.5	4118.8	4060.2	4113.3	4406.5	4794.9	4782.1	4747.3	4443.1	4096.8	3680.9
32.5°	4481.6	4468.8	4465.1	4694.1	5225.5	5414.2	5405.0	5067.9	4760.1	4459.6	3955.8
35°	4622.7	4573.2	4562.2	5117.4	6006.0	5756.8	5700.0	5199.8	5144.9	4855.4	4236.1
37.5°	5047.7	5012.9	4842.5	5187.0	5694.5	5612.1	5568.1	5427.0	5555.3	5205.3	4553.1
40°	5923.5	5826.4	5672.5	5335.4	5253.0	5287.8	5331.7	5718.3	6040.8	5683.5	4976.3
42.5°	7011.9	6989.9	6704.1	6075.6	5458.2	5505.8	5562.6	6326.6	6738.9	6403.6	5667.0
45°	8318.3	8349.4	7937.2	7195.1	6385.3	6425.6	6508.0	7224.4	7684.3	7523.1	6753.5
47.5°	9505.5	9481.7	9342.5	8571.1	7823.6	7733.8	7867.5	8376.9	8992.5	9018.2	8102.1
50°	10700.1	10826.6	10619.5	10317.2	9762.0	9573.3	9523.8	9773.0	10711.1	10588.4	9721.7
52.5°	12416.9	12482.9	12094.4	12017.5	12143.9	11532.0	11482.5	11542.9	12382.1	11960.7	10934.7
55°	13496.1	13457.6	13312.9	13913.8	14414.0	13650.0	13587.7	13344.0	13769.1	12929.9	12101.8
57.5°	13836.9	13891.8	14229.0	15315.5	16499.1	15850.5	15736.9	15044.3	14769.5	13833.2	13175.5
60°	13684.8	13785.6	14513.0	16129.0	17770.6	17673.5	17576.4	16413.0	15487.7	14588.1	13928.5
62.5°	12602.0	12743.0	13906.5	15984.2	18201.2	18807.7	18686.8	17266.8	15965.9	14954.5	14060.4
65°	10560.9	10665.3	12336.3	14670.5	17589.3	19196.1	19152.1	17534.3	16041.0	14619.2	13157.1
67.5°	7528.6	7884.0	9432.2	12363.8	15779.0	18532.8	18608.0	17213.7	15335.6	13170.0	10896.2
70°	4732.6	4974.5	6084.8	8851.4	12649.6	16259.1	16506.4	15746.0	13309.2	10265.9	7294.0
72.5°	2257.3	2436.8	3228.4	5602.9	8928.4	12792.5	12988.6	12926.3	10291.5	6467.7	3763.4
75°	1005.9	1073.7	1540.9	2860.1	5764.1	8598.6	9106.1	9190.4	6431.1	3164.2	1463.9
77.5°	513.0	514.9	721.9	1385.2	2878.4	5130.2	5231.0	5526.0	3486.7	1394.3	509.4
80°	273.0	291.3	382.9	654.1	1493.3	2526.6	2513.8	2763.0	1546.4	683.4	170.4
82.5°	122.8	135.6	216.2	342.6	729.2	958.2	1033.4	1130.5	663.3	436.1	75.1
85°	36.6	44.0	106.3	172.2	263.8	276.7	309.6	399.4	375.6	309.6	38.5
87.5°	5.5	5.5	44.0	47.6	38.5	49.5	51.3	56.8	120.9	113.6	20.2
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°	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6	2231.6
2.5°	2235.3	2222.5	2176.7	2138.2	2105.2	2085.1	2061.2	2046.6	2039.3	2033.8	2035.6
5°	2244.5	2213.3	2134.5	2072.2	2024.6	1973.3	1938.5	1918.3	1909.2	1894.5	1894.5
7.5°	2295.8	2246.3	2136.4	2041.1	1958.6	1889.0	1823.1	1799.2	1782.7	1779.1	1775.4
10°	2369.1	2306.8	2156.5	2024.6	1907.3	1812.1	1718.6	1636.2	1572.0	1533.6	1528.1
12.5°	2460.7	2370.9	2187.7	2013.6	1863.4	1694.8	1447.4	1280.7	1169.0	1134.1	1139.6
15°	2544.9	2447.8	2218.8	2004.4	1782.7	1405.3	1125.0	934.4	877.6	872.1	874.0
17.5°	2645.7	2530.3	2255.5	1991.6	1561.0	1073.7	835.5	784.2	795.2	813.5	811.7
20°	2750.2	2618.2	2299.4	1914.7	1245.9	808.0	738.4	743.9	760.4	776.9	780.5
22.5°	2861.9	2719.0	2350.7	1729.6	950.9	703.6	699.9	707.2	723.7	742.0	745.7
25°	3015.8	2845.4	2389.2	1487.8	720.1	650.4	657.8	670.6	685.2	705.4	709.1
27.5°	3213.7	3015.8	2409.4	1172.6	623.0	602.8	604.6	623.0	641.3	659.6	659.6
30°	3470.2	3219.2	2369.1	886.8	575.3	557.0	549.7	560.7	584.5	602.8	604.6
32.5°	3699.2	3411.6	2262.8	677.9	540.5	514.9	496.5	498.4	507.5	518.5	520.3
35°	3928.3	3598.5	2081.4	569.8	503.9	474.5	447.1	432.4	425.1	419.6	425.1
37.5°	4221.4	3831.2	1839.5	518.5	472.7	436.1	397.6	366.4	340.8	324.3	328.0
40°	4598.9	4153.6	1553.7	485.5	443.4	399.4	348.1	307.8	263.8	249.2	241.9
42.5°	5221.8	4642.8	1253.2	458.1	414.1	360.9	296.8	241.9	201.5	186.9	190.6
45°	6205.7	5260.3	965.6	428.7	384.8	318.8	249.2	190.6	157.6	150.2	153.9
47.5°	7510.2	6059.1	743.9	395.8	348.1	273.0	196.0	150.2	130.1	128.3	126.4
50°	8737.8	6803.0	621.1	359.1	304.1	227.2	161.2	126.4	113.6	111.8	111.8
52.5°	9848.2	7336.2	505.7	317.0	256.5	186.9	135.6	111.8	100.8	95.3	95.3
55°	10835.7	7684.3	410.4	265.7	201.5	148.4	117.3	100.8	87.9	80.6	78.8
57.5°	11581.4	7726.4	307.8	212.5	150.2	115.4	100.8	87.9	73.3	64.1	60.5
60°	11900.2	7361.8	227.2	161.2	111.8	91.6	80.6	71.5	55.0	45.8	44.0
62.5°	11579.6	6652.8	168.6	122.8	86.1	67.8	56.8	53.1	38.5	27.5	25.7
65°	10430.8	5628.6	133.8	93.4	64.1	49.5	36.6	34.8	23.8	12.8	11.0
67.5°	8356.7	4408.3	106.3	69.6	45.8	33.0	23.8	22.0	12.8	3.7	3.7
70°	5434.3	2817.9	86.1	51.3	29.3	22.0	14.7	11.0	7.3	1.8	0.0
72.5°	2687.9	1317.4	69.6	40.3	20.2	11.0	5.5	3.7	5.5	0.0	0.0
75°	1042.5	469.0	51.3	27.5	11.0	5.5	3.7	0.0	1.8	0.0	0.0
77.5°	346.3	155.7	31.1	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	128.3	60.5	16.5	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	51.3	23.8	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.7	14.7	7.3	5.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	11.0	7.3	5.5	3.7	1.8	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)