

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: P647470

Luminaire Tested: **GALN-SA5D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30266.9 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

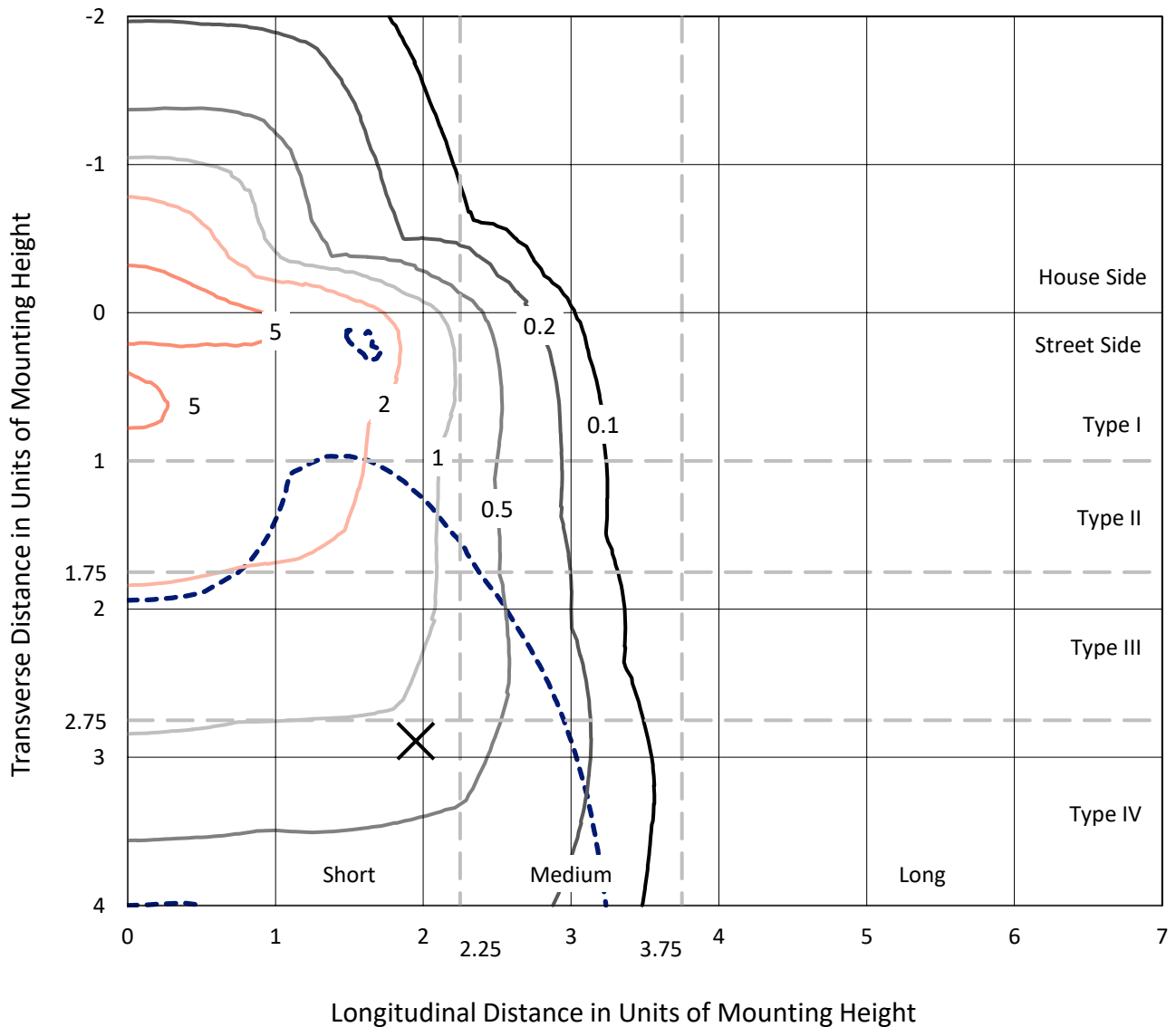
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

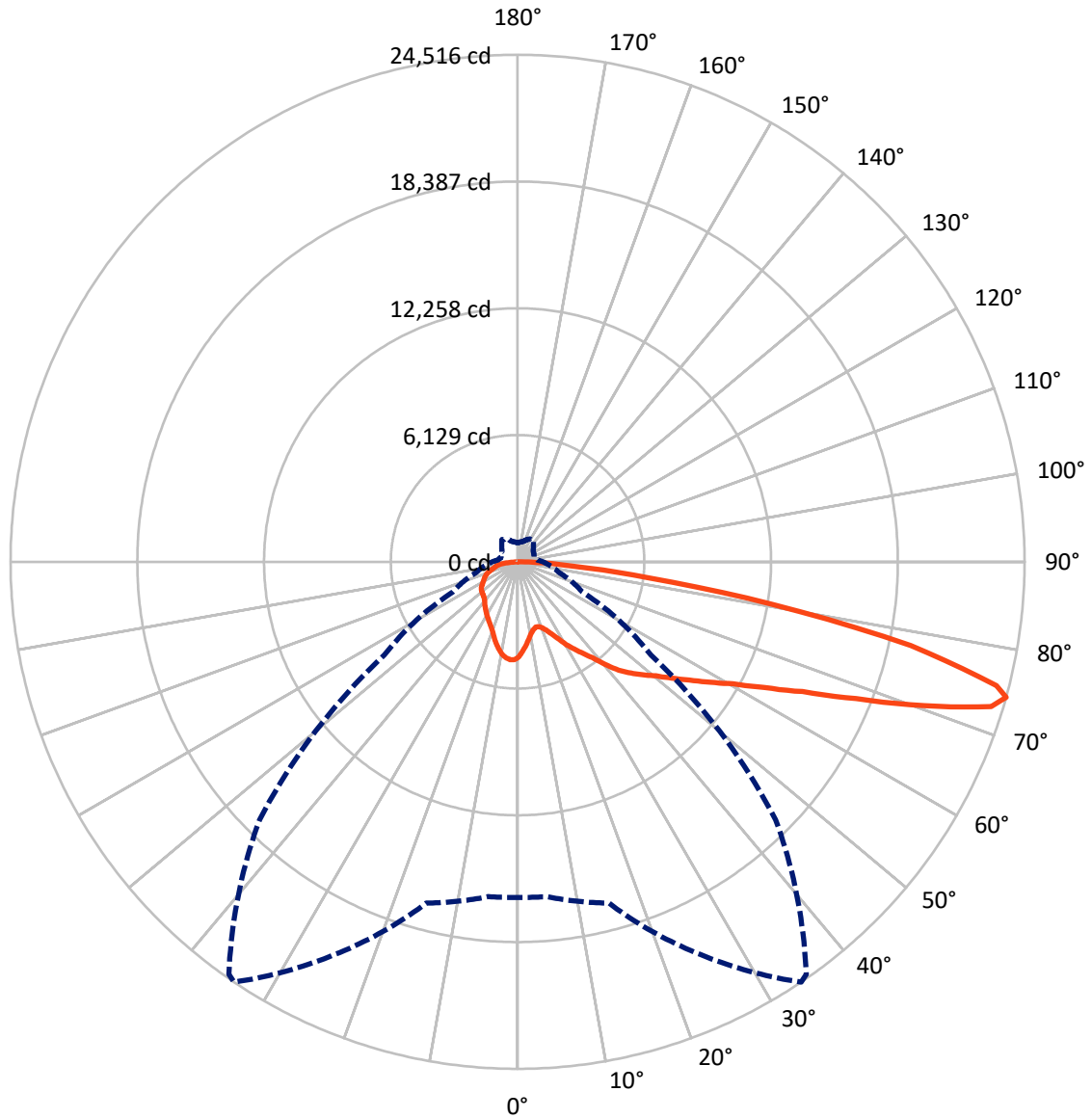
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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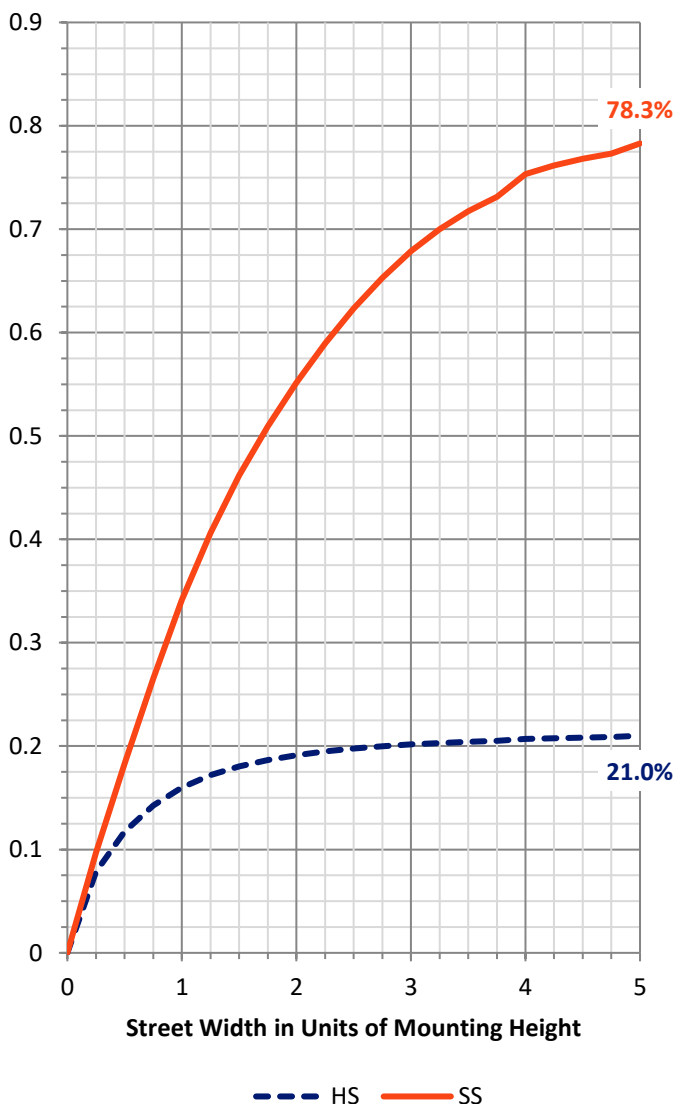
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6441.0	0.0	6441.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	23825.8	0.0	23825.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	30266.9	0.0	30266.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	1.4
10°-20°	1150.5	3.8
20°-30°	1896.8	6.3
30°-40°	2841.3	9.4
40°-50°	4130.4	13.6
50°-60°	5769.2	19.1
60°-70°	7222.7	23.9
70°-80°	5972.6	19.7
80°-90°	863.0	2.9
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°	30266.9	100.0
0°-180°	30266.9	100.0

Coefficient of Utilization

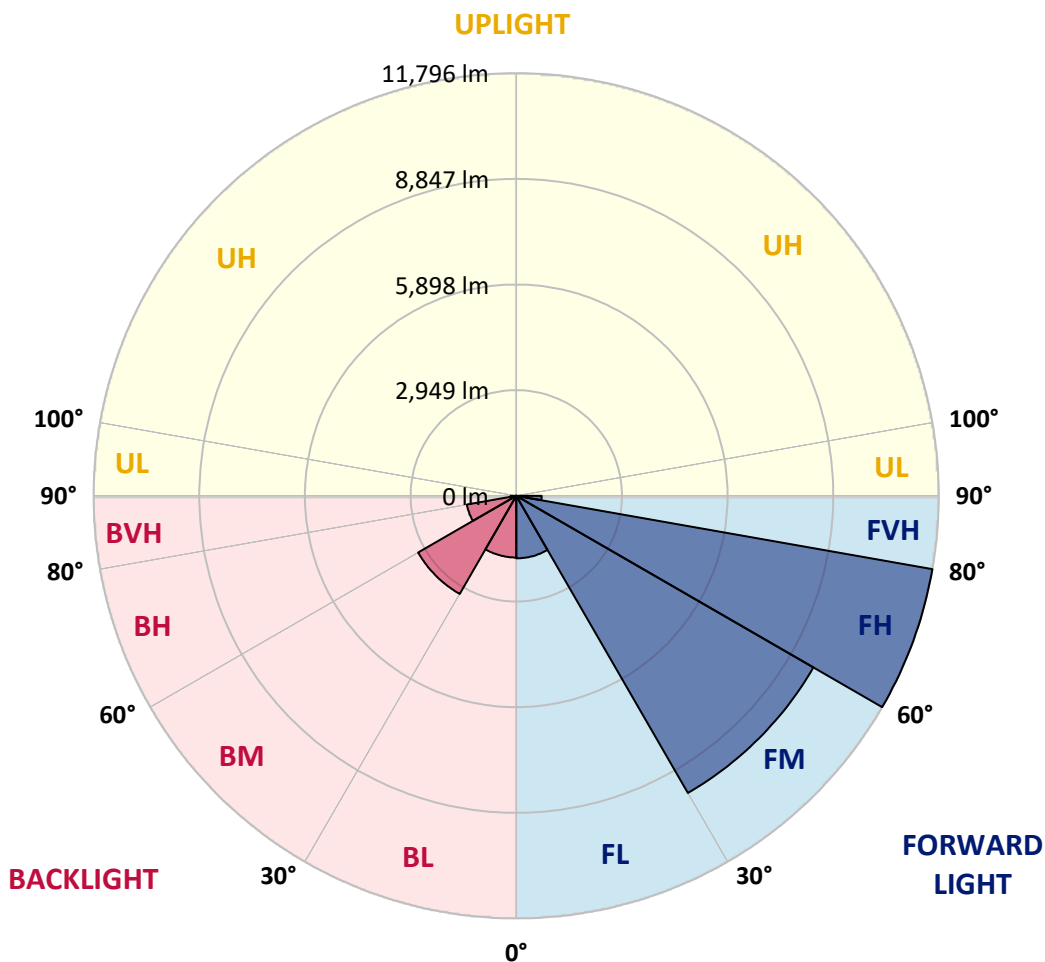


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.7	5.8			
FM (30°-60°)	9577.7	31.6			
FH (60°-80°)	11796.4	39.0			G4/12000
FVH (80°-90°)	707.0	2.3			G4/750
BL (0°-30°)	1722.9	5.7	B3/2500		
BM (30°-60°)	3163.2	10.5	B3/5000		
BH (60°-80°)	1398.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	156.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2
2.5°	4270.7	4292.5	4304.2	4346.2	4356.2	4369.6	4404.8	4451.8	4512.2	4565.8	4612.7
5°	3915.2	3948.7	3968.9	4005.7	4077.9	4084.6	4178.5	4285.8	4408.2	4522.2	4616.1
7.5°	3578.2	3615.1	3631.9	3699.0	3794.5	3809.6	3947.1	4116.5	4321.0	4493.7	4637.9
10°	3325.0	3343.5	3380.4	3430.6	3544.6	3554.7	3734.1	3960.5	4225.5	4480.3	4674.8
12.5°	3187.5	3197.6	3206.0	3259.6	3372.0	3387.0	3574.9	3831.4	4150.0	4490.3	4735.2
15°	3207.6	3211.0	3174.1	3184.1	3274.7	3296.5	3482.6	3745.9	4103.0	4515.5	4825.7
17.5°	3377.0	3365.3	3274.7	3227.8	3291.5	3301.5	3464.1	3712.4	4081.2	4562.5	4919.6
20°	3643.6	3626.9	3470.9	3366.9	3403.9	3412.2	3524.5	3737.5	4103.0	4639.6	5065.5
22.5°	3975.6	3968.9	3732.5	3606.7	3605.0	3605.0	3663.7	3828.0	4168.5	4745.2	5218.1
25°	4440.1	4404.8	4096.3	3933.7	3888.4	3885.1	3878.4	3977.2	4252.2	4857.6	5399.2
27.5°	4916.3	4855.9	4580.9	4331.1	4233.8	4222.1	4178.5	4188.6	4359.6	4985.0	5605.4
30°	5343.8	5305.3	5047.1	4770.3	4654.7	4627.8	4507.1	4451.8	4539.0	5214.7	5934.0
32.5°	5670.8	5647.3	5446.2	5194.6	5023.6	5018.6	4842.5	4797.2	4819.0	5493.1	6309.6
35°	5935.8	5944.1	5841.8	5623.8	5427.7	5399.2	5281.8	5224.8	5161.1	5895.5	6782.5
37.5°	6297.9	6316.4	6309.6	6121.9	5882.1	5888.8	5861.9	5768.0	5598.7	6344.9	7307.3
40°	6697.0	6710.4	6708.7	6636.6	6510.9	6517.5	6507.5	6400.2	6147.0	6916.6	7890.8
42.5°	7248.6	7184.9	7018.9	7091.0	7164.8	7196.6	7265.4	7163.1	6816.0	7527.0	8439.2
45°	7865.7	7745.0	7369.4	7402.9	7676.2	7736.6	8115.5	7974.7	7542.1	8227.8	9084.7
47.5°	8254.7	8135.6	7818.7	7812.0	8174.2	8232.9	8903.6	8851.6	8202.7	8984.1	9872.8
50°	8601.8	8585.0	8227.8	8313.3	8667.2	8754.3	9762.1	9713.5	8861.7	9876.1	10731.2
52.5°	9116.5	8980.7	8695.7	8871.7	9339.5	9453.6	10613.9	10471.4	9467.0	10664.2	11564.6
55°	9347.9	9316.1	9299.3	9451.9	10094.1	10176.3	11442.2	11115.2	9983.4	11331.6	12198.4
57.5°	9966.7	9908.0	10074.0	10177.9	10982.7	11108.5	12307.4	11787.6	10436.1	11861.4	12506.9
60°	10768.1	10736.3	10888.9	11076.7	11975.4	12166.6	13293.4	12361.1	10800.0	12128.0	12337.6
62.5°	11965.3	11962.0	11933.5	12335.9	13382.3	13558.3	14425.1	12919.4	10857.0	11928.5	11462.3
65°	13682.4	13622.0	13373.9	13813.1	15132.7	15339.0	15603.9	13231.3	10513.3	10904.0	9651.4
67.5°	15478.2	15474.8	15273.6	15843.7	17646.2	17859.2	17077.8	13162.5	9559.2	8833.2	6854.6
70°	16967.1	16895.0	17151.6	18670.7	20857.2	21103.7	18367.2	12352.7	7614.2	5833.4	4072.9
72.5°	17324.3	17327.6	17860.9	20850.5	23940.8	23979.4	18831.7	10011.9	5095.7	3217.7	2037.3
74°	16224.3	16252.8	17079.5	20959.5	24515.9	24341.5	17644.5	7869.1	3445.7	2100.9	1468.8
75°	14809.1	14629.7	15825.3	20233.5	23919.0	23731.2	16254.5	6314.7	2629.2	1678.4	1286.1
77.5°	7917.7	8100.4	9944.9	15099.2	19431.9	19215.7	11021.4	3028.3	1420.2	1168.7	925.6
80°	2818.6	3108.7	4369.6	7900.9	12458.3	12525.4	5260.0	1388.3	999.3	861.8	654.0
82.5°	1150.2	1182.1	1876.3	3506.1	6326.4	6386.8	2147.9	825.0	714.3	593.6	390.7
85°	449.4	462.8	830.0	1576.2	2699.5	2875.6	742.8	436.0	439.3	340.4	199.5
87.5°	150.9	171.0	340.4	524.8	917.2	898.7	216.3	129.1	157.6	147.5	62.0
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°	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2	4621.2
2.5°	4636.2	4668.1	4689.9	4713.3	4735.2	4741.8	4736.8	4751.9	4753.6	4755.3	4757.0
5°	4663.1	4706.7	4748.6	4772.1	4782.1	4773.7	4745.2	4730.1	4716.7	4706.7	4710.1
7.5°	4700.0	4762.0	4800.6	4810.6	4783.8	4745.2	4674.8	4619.5	4584.2	4560.8	4559.1
10°	4757.0	4817.3	4849.2	4820.7	4746.9	4653.0	4542.3	4438.4	4359.6	4336.1	4334.5
12.5°	4829.1	4897.8	4896.2	4812.3	4683.2	4515.5	4336.1	4215.4	4108.1	4054.4	4076.2
15°	4923.0	4974.9	4926.3	4775.4	4570.8	4341.1	4119.8	3955.5	3834.7	3777.7	3781.1
17.5°	5031.9	5077.2	4948.1	4710.1	4413.2	4118.1	3861.6	3705.6	3610.1	3568.1	3564.8
20°	5167.8	5181.2	4948.1	4596.0	4210.3	3858.2	3613.4	3504.4	3450.8	3429.0	3435.6
22.5°	5313.7	5286.8	4921.3	4435.1	3943.7	3586.6	3422.3	3373.6	3346.8	3343.5	3346.8
25°	5477.9	5402.5	4866.0	4217.1	3665.4	3351.9	3256.3	3264.6	3269.7	3269.7	3281.4
27.5°	5679.2	5528.3	4773.7	3942.1	3340.1	3133.9	3107.0	3165.7	3192.5	3197.6	3206.0
30°	5944.1	5665.8	4621.2	3598.4	3063.4	2937.7	2984.6	3063.4	3093.6	3112.0	3108.7
32.5°	6259.4	5816.7	4414.9	3254.6	2840.4	2800.2	2857.2	2937.7	2971.3	2981.3	2967.9
35°	6629.9	5987.7	4143.2	2932.6	2645.9	2669.4	2736.5	2761.6	2791.8	2791.8	2798.5
37.5°	7029.0	6125.2	3811.3	2637.5	2495.0	2580.5	2629.2	2605.7	2592.3	2575.5	2583.9
40°	7434.7	6227.5	3380.4	2345.8	2344.1	2488.3	2501.8	2434.7	2381.0	2364.3	2355.8
42.5°	7788.6	6291.2	2991.4	2119.4	2201.6	2397.8	2407.8	2300.5	2215.0	2164.7	2147.9
45°	8206.1	6365.0	2610.7	1931.7	2069.2	2325.7	2350.8	2206.7	2080.8	1975.2	1948.4
47.5°	8777.8	6532.6	2310.6	1785.8	1973.6	2280.4	2315.6	2129.4	1963.5	1826.0	1804.2
50°	9423.4	6762.4	2077.5	1686.8	1899.8	2240.2	2283.8	2050.7	1854.5	1701.9	1685.2
52.5°	10015.3	6886.5	1876.3	1597.9	1827.7	2166.4	2241.8	1993.7	1747.2	1577.8	1562.7
55°	10338.9	6685.3	1678.4	1510.8	1728.7	2070.8	2183.2	1914.8	1643.2	1512.4	1490.7
57.5°	10382.5	6269.4	1499.1	1416.8	1624.8	1953.4	2074.2	1819.3	1576.2	1467.2	1448.7
60°	10045.5	5649.0	1359.8	1339.7	1519.2	1820.9	1951.8	1735.4	1507.4	1416.8	1398.4
62.5°	9207.1	4974.9	1262.6	1269.3	1411.8	1681.8	1861.2	1654.9	1442.1	1361.6	1344.7
65°	7765.1	4106.4	1168.7	1197.2	1316.2	1572.8	1779.1	1587.9	1376.6	1319.6	1304.6
67.5°	5394.2	2964.5	1091.6	1121.7	1225.7	1462.2	1683.4	1515.8	1302.8	1272.7	1249.2
70°	2986.3	1824.3	1001.0	1036.2	1131.8	1338.1	1576.2	1406.8	1195.6	1182.1	1148.6
72.5°	1569.4	1162.0	898.7	937.3	1004.4	1178.7	1411.8	1287.7	1089.9	1032.9	989.3
74°	1225.7	952.4	830.0	870.2	915.5	1084.8	1314.6	1202.2	1014.5	947.4	913.8
75°	1068.1	848.5	771.3	823.3	863.6	1021.1	1239.1	1141.8	972.5	908.8	878.6
77.5°	754.6	635.5	630.5	692.5	714.3	895.4	1116.7	1039.6	866.9	799.8	771.3
80°	529.9	476.2	499.7	538.2	568.5	791.5	1036.2	898.7	711.0	632.1	622.1
82.5°	345.4	311.9	357.1	392.4	402.4	583.5	836.7	682.5	518.1	420.9	390.7
85°	159.3	156.0	204.6	199.5	197.9	285.0	496.3	399.1	298.5	223.0	209.6
87.5°	40.2	38.6	50.3	41.9	50.3	43.6	45.3	11.7	1.6	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)