

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: P648621

Luminaire Tested: **GALN-SA8B-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28168.4 lumens
Efficiency: N/A
Efficacy: 86.7 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

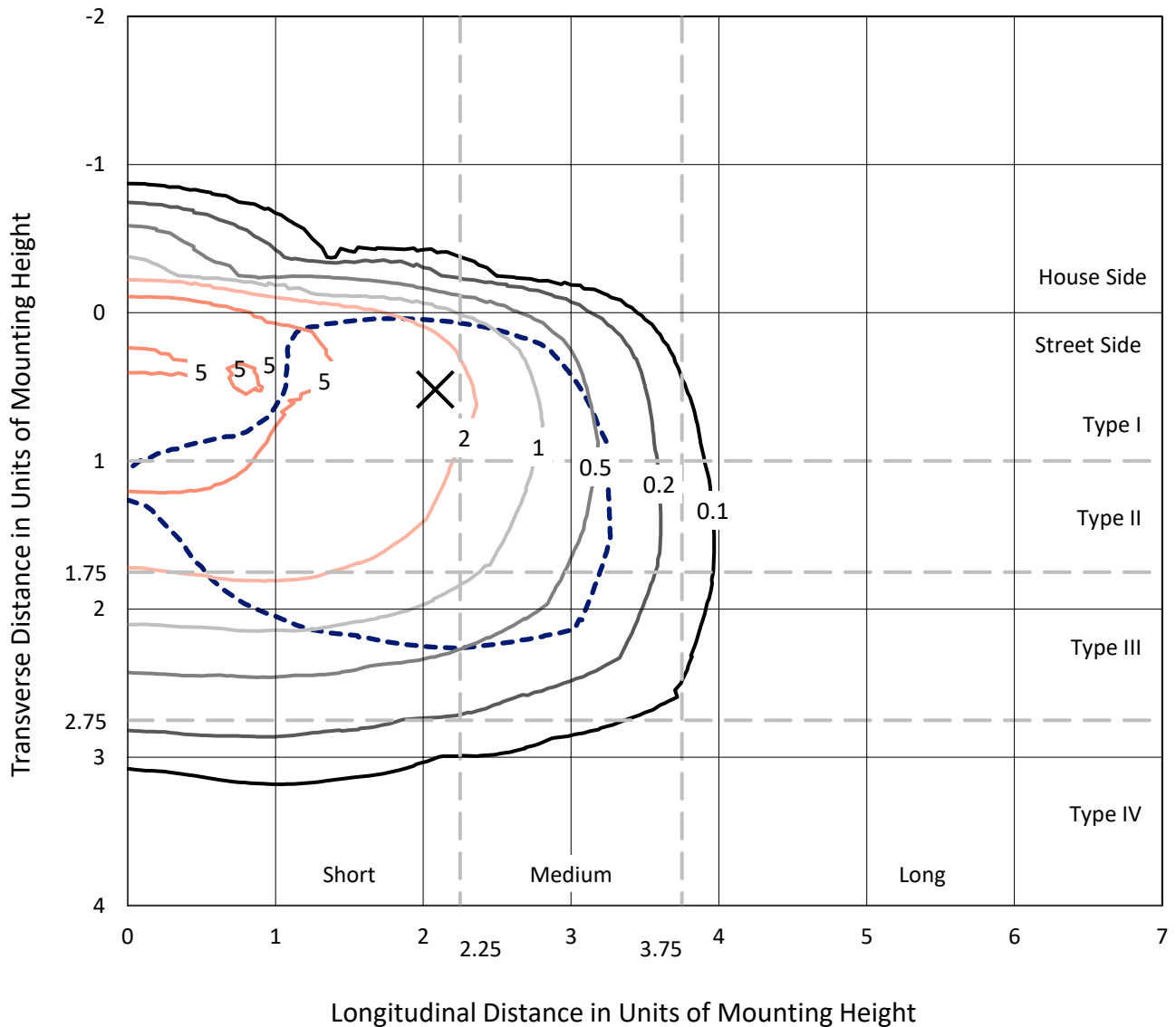
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

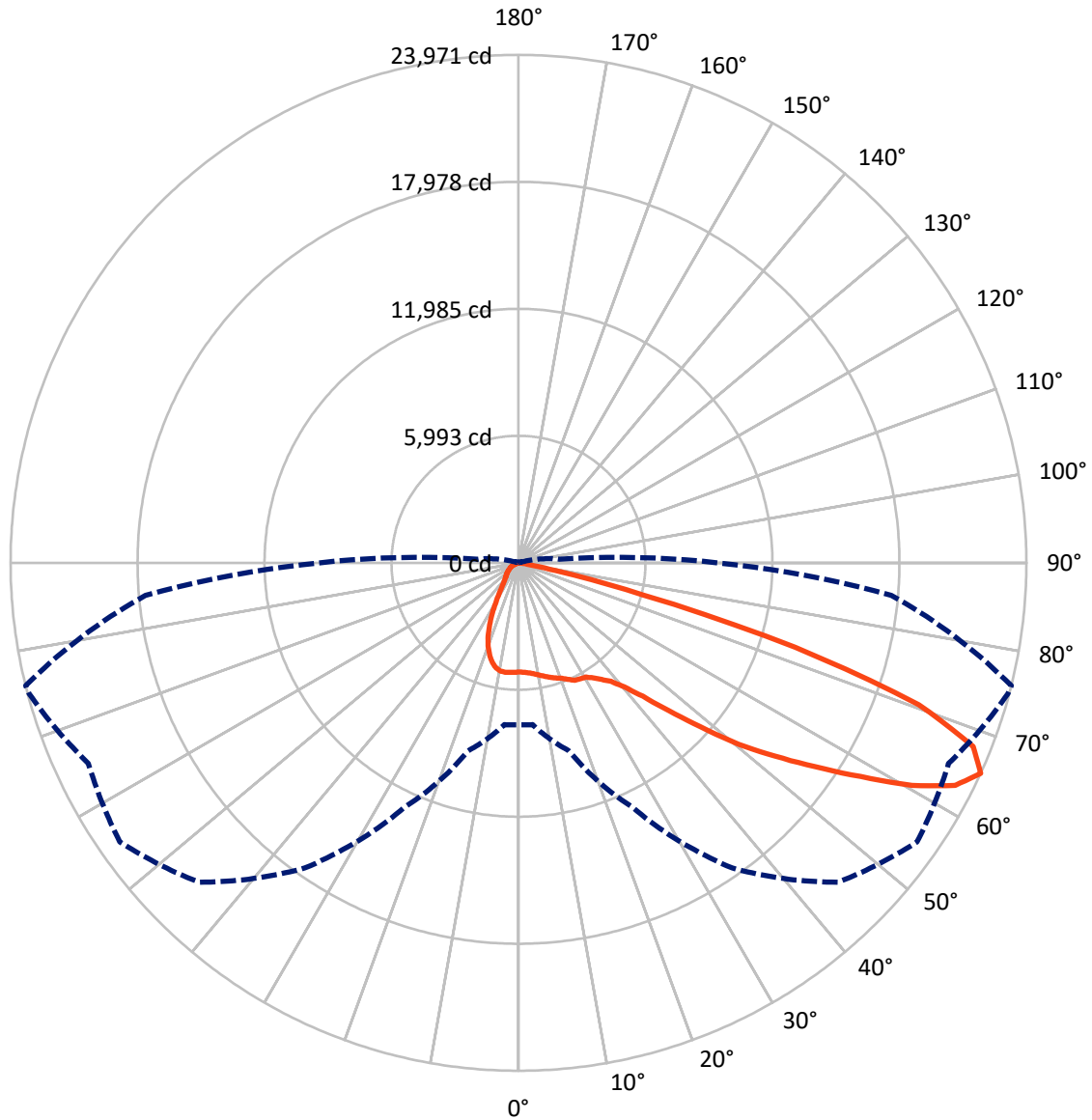
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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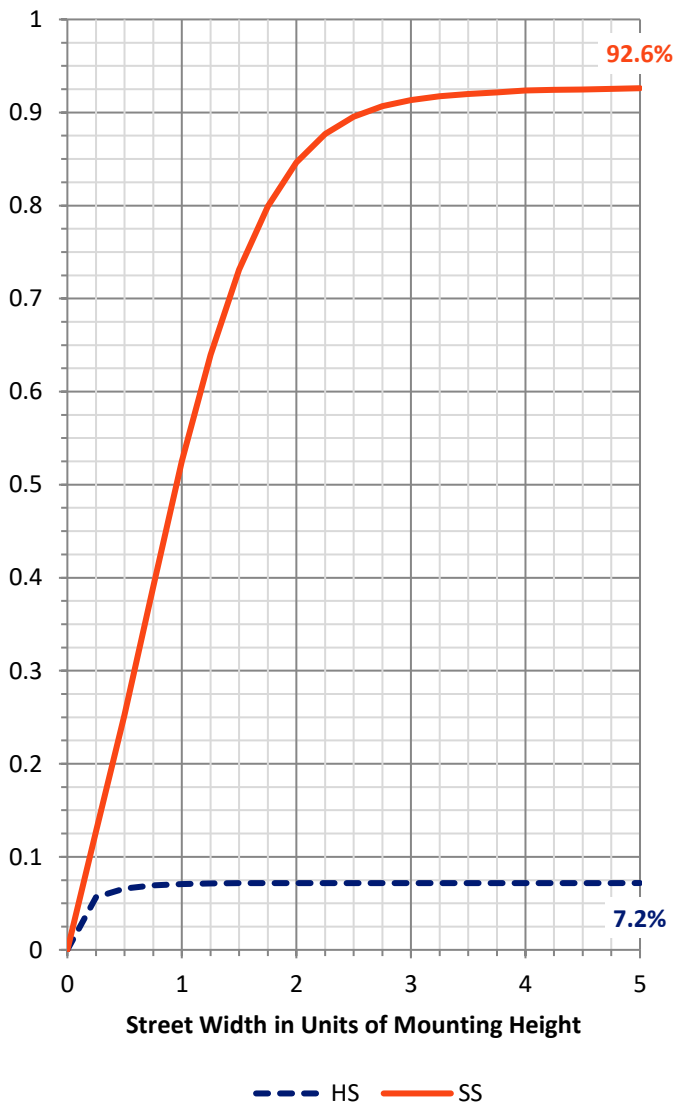
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2034.3	0.0	2034.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26134.1	0.0	26134.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	28168.4	0.0	28168.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	1.5
10°-20°	945.1	3.4
20°-30°	1523.0	5.4
30°-40°	2648.1	9.4
40°-50°	4375.9	15.5
50°-60°	6759.8	24.0
60°-70°	8254.7	29.3
70°-80°	3132.9	11.1
80°-90°	104.6	0.4
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°	28168.4	100.0
0°-180°	28168.4	100.0

Coefficient of Utilization

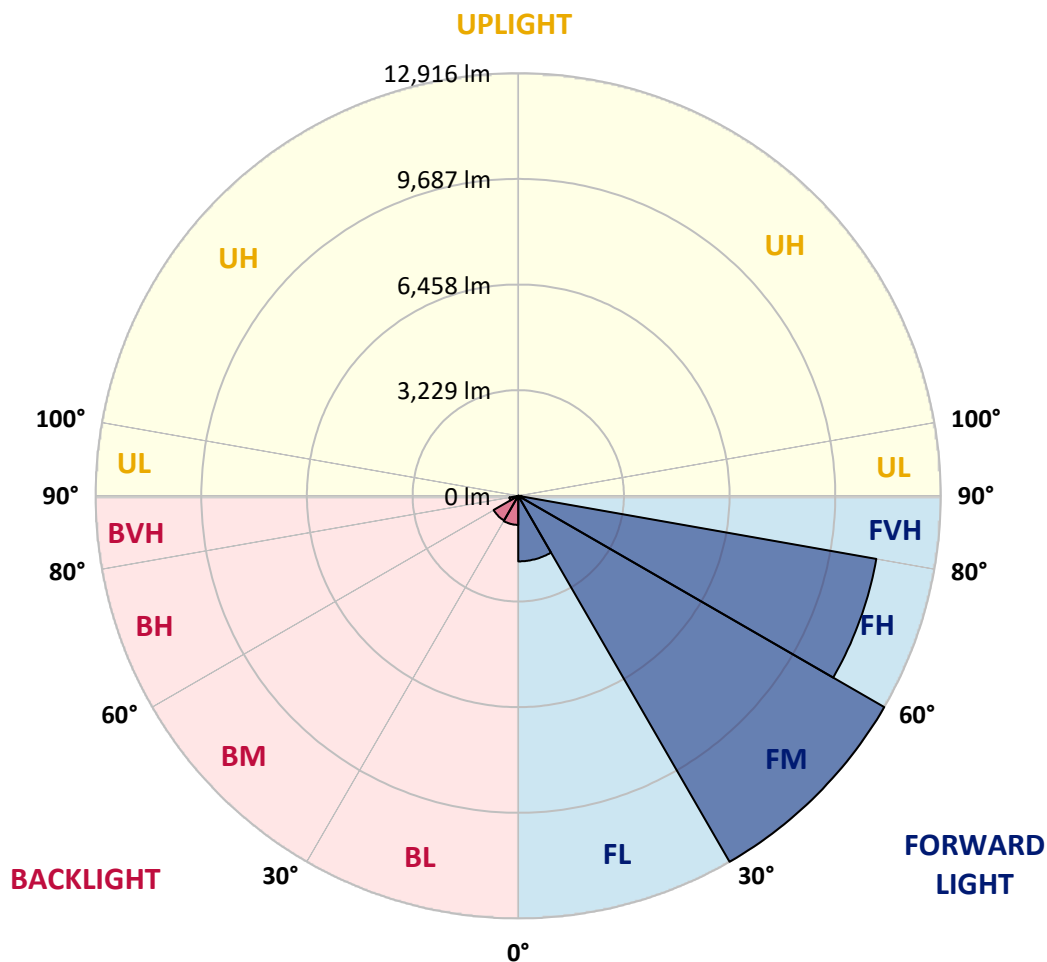


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.9	7.1			
FM (30°-60°)	12915.6	45.9			
FH (60°-80°)	11111.5	39.4			G4/12000
FVH (80°-90°)	103.1	0.4			G2/225
BL (0°-30°)	888.7	3.2	B2/1000		
BM (30°-60°)	868.1	3.1	B1/1000		
BH (60°-80°)	276.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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°	45°	55°	65°	75°	76°	85°
0°	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9
2.5°	4924.2	4926.2	4938.1	4968.0	5013.7	5051.4	5083.3	5135.0	5170.8	5174.8	5186.7
5°	4584.2	4560.3	4584.2	4661.7	4731.3	4836.7	4965.9	5095.2	5210.6	5218.5	5274.2
7.5°	4202.3	4222.2	4259.9	4339.5	4470.8	4631.8	4818.8	5049.5	5268.3	5288.1	5397.5
10°	3814.5	3858.2	3919.9	4041.2	4224.1	4433.0	4687.5	5017.7	5359.7	5387.6	5576.5
12.5°	3456.5	3476.4	3551.9	3715.0	3941.8	4236.1	4588.1	4999.8	5461.2	5494.9	5767.4
15°	3182.0	3207.9	3273.5	3420.7	3673.3	4051.2	4506.6	4993.8	5560.6	5608.3	5958.3
17.5°	3130.4	3146.3	3174.0	3273.5	3494.3	3904.0	4433.0	4991.8	5656.1	5713.7	6135.4
20°	3343.1	3329.2	3301.4	3291.4	3412.7	3790.6	4379.2	5007.8	5747.5	5813.1	6322.3
22.5°	3876.1	3894.0	3730.9	3538.0	3498.2	3772.7	4371.3	5083.3	5892.7	5970.3	6531.2
25°	5007.8	4870.5	4615.9	4154.5	3806.5	3882.1	4460.8	5262.3	6061.8	6147.3	6720.0
27.5°	6258.7	6216.9	5821.1	5061.4	4413.1	4112.8	4619.9	5399.5	6117.4	6205.0	6827.4
30°	7487.8	7537.5	7084.0	6244.7	5294.1	4540.4	4769.1	5451.2	6167.1	6258.7	6964.7
32.5°	8627.3	8686.9	8289.2	7457.9	6332.3	5280.2	5025.6	5652.1	6376.0	6469.5	7193.4
35°	9524.3	9532.2	9231.9	8569.6	7465.8	6179.1	5580.5	6004.1	6658.4	6767.8	7436.0
37.5°	10347.6	10335.7	9983.6	9412.8	8410.5	7072.1	6278.6	6409.8	6980.6	7094.0	7786.1
40°	10958.2	10966.1	10852.7	10315.8	9291.5	7897.4	6831.4	6789.6	7521.5	7698.5	8295.2
42.5°	11365.8	11439.4	11495.1	11222.7	10399.3	8913.7	7680.6	7603.1	8460.2	8607.4	9015.1
45°	11696.0	11827.2	12105.6	12091.7	11463.3	10160.6	8846.0	8686.9	9790.7	9947.9	9931.9
47.5°	11936.6	12069.9	12531.2	12809.6	12463.6	11369.8	10311.8	10174.5	11379.7	11550.8	10944.2
50°	12059.9	12219.0	12807.7	13346.6	13245.2	12535.2	11982.3	11990.3	13298.9	13464.0	12117.6
52.5°	11771.5	11978.3	12954.8	13925.3	14122.3	13650.9	13547.5	13810.0	15007.3	15148.5	13177.6
55°	10850.7	11111.2	12754.0	14418.6	15138.5	14967.5	15325.5	15725.2	16874.7	16966.2	14265.5
57.5°	10268.0	10544.4	12161.3	14838.2	16359.6	16622.2	17189.0	17481.3	18801.9	19034.5	15514.4
60°	9776.8	9993.6	11674.1	14927.7	17600.6	18646.7	19197.6	19499.9	21180.4	21331.6	16888.6
62.5°	8959.4	9208.0	10850.7	14303.2	18225.1	20267.6	21409.1	21273.9	23020.0	23125.4	17731.9
65°	7644.8	7666.7	9180.1	12734.1	17580.7	21319.6	22962.3	22395.5	23899.0	23970.7	17666.3
67.5°	5705.8	5916.6	7062.1	10009.5	14850.1	20420.7	23465.5	22425.4	23344.2	23145.3	16264.2
70°	3675.2	3836.3	4786.9	6940.8	10707.5	17041.8	21796.9	20888.1	20488.3	20046.8	13312.8
72.5°	1696.4	1903.2	2843.9	3965.6	6350.1	12139.5	17694.1	16970.2	14746.7	13656.9	8462.2
75°	739.9	791.5	1404.1	2092.2	2977.2	6419.7	11666.2	10534.5	6660.4	6083.7	3386.9
77.5°	451.5	485.2	735.9	1121.6	1169.4	2446.2	6284.5	4596.1	2058.4	1815.8	918.9
80°	306.3	344.1	534.9	586.7	399.7	682.1	2358.7	1227.0	415.6	397.8	196.9
82.5°	149.2	188.9	395.7	328.2	173.0	218.8	686.1	262.5	121.3	113.4	69.6
85°	21.8	37.8	222.8	214.8	77.6	51.7	121.3	65.6	41.7	39.8	31.8
87.5°	0.0	0.0	75.6	33.8	8.0	8.0	13.9	13.9	15.9	13.9	15.9
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°	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9	5152.9
2.5°	5192.7	5202.6	5164.8	5111.1	5053.5	4995.8	4914.3	4840.7	4796.9	4822.7	4759.2
5°	5286.2	5278.2	5178.8	5015.7	4798.9	4538.3	4279.8	4059.1	3987.5	3880.1	3868.2
7.5°	5415.4	5393.5	5182.8	4808.9	4319.6	3830.4	3353.0	3036.9	2855.8	2702.8	2706.8
10°	5596.4	5532.8	5137.0	4444.9	3639.5	2901.6	2293.0	1875.4	1694.4	1636.8	1591.0
12.5°	5783.3	5660.1	5009.7	3953.7	2834.0	1982.8	1394.1	1139.6	1028.2	992.4	988.4
15°	5950.4	5755.5	4786.9	3363.0	2060.4	1266.8	950.6	867.1	853.2	855.2	853.2
17.5°	6115.5	5831.1	4478.7	2736.6	1400.1	908.9	817.4	797.5	803.4	811.4	809.5
20°	6252.7	5847.0	4084.9	2088.2	990.4	797.5	767.7	763.7	769.7	775.6	775.6
22.5°	6401.9	5859.0	3617.5	1445.8	809.5	741.8	725.9	725.9	733.8	741.8	743.8
25°	6513.2	5793.3	3058.7	1038.1	713.9	688.1	680.2	682.1	690.1	694.1	692.1
27.5°	6531.2	5608.3	2466.1	795.5	648.3	622.5	614.5	622.5	612.5	618.5	614.5
30°	6547.1	5373.7	1865.5	670.2	588.7	548.9	537.0	525.0	517.1	507.1	505.1
32.5°	6596.8	5097.3	1362.3	602.6	533.0	489.2	461.4	427.6	401.8	393.8	391.8
35°	6618.6	4765.1	1000.4	548.9	483.3	435.5	385.8	338.1	300.3	286.4	296.4
37.5°	6702.2	4442.9	775.6	509.1	439.5	379.8	316.2	256.6	220.7	212.8	216.8
40°	6873.2	4092.9	650.4	475.3	401.8	328.2	250.6	192.9	169.0	161.1	159.1
42.5°	7147.6	3744.9	578.7	443.5	363.9	276.5	196.9	151.1	131.2	125.3	125.3
45°	7481.7	3410.7	529.0	409.7	324.2	222.8	155.1	121.3	109.4	105.4	105.4
47.5°	7921.3	3118.4	487.3	375.8	280.4	177.0	125.3	105.4	97.5	99.4	101.4
50°	8366.7	2901.6	441.5	338.1	230.7	145.2	107.4	93.5	91.5	93.5	93.5
52.5°	8702.9	2774.3	379.8	286.4	181.0	121.3	95.4	87.5	85.5	81.5	81.5
55°	9156.3	2746.5	302.3	232.7	143.2	101.4	85.5	79.6	73.6	69.6	67.7
57.5°	9739.0	2778.3	232.7	181.0	111.3	83.5	75.6	65.6	57.7	49.7	49.7
60°	10100.9	2706.8	181.0	139.2	81.5	67.7	57.7	47.8	37.8	31.8	29.8
62.5°	9985.6	2404.4	143.2	103.4	57.7	49.7	37.8	31.8	21.8	15.9	13.9
65°	9391.0	1941.1	115.3	71.6	41.7	29.8	19.9	19.9	9.9	2.0	0.0
67.5°	8219.6	1437.9	91.5	47.8	23.9	13.9	9.9	6.0	0.0	0.0	0.0
70°	6690.2	1038.1	71.6	29.8	13.9	9.9	4.0	2.0	0.0	0.0	0.0
72.5°	4248.0	594.6	55.7	17.9	9.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	1642.7	232.7	37.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	465.3	109.4	21.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.3	47.8	11.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.7	19.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.8	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	2.0	0.0	0.0	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)