

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: P647576

Luminaire Tested: **GALN-SA7D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647576
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-SA7D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 33031.6 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

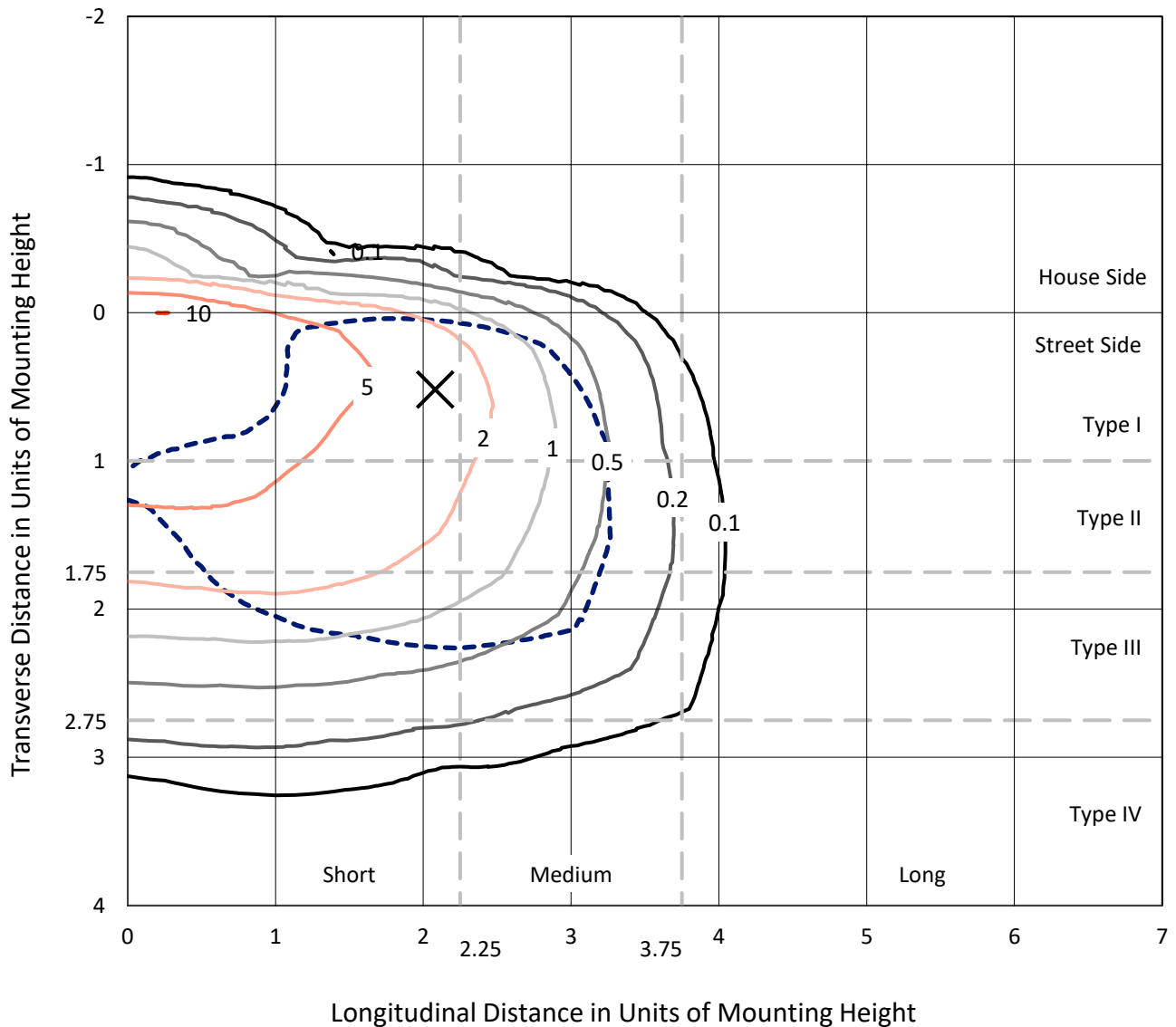
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

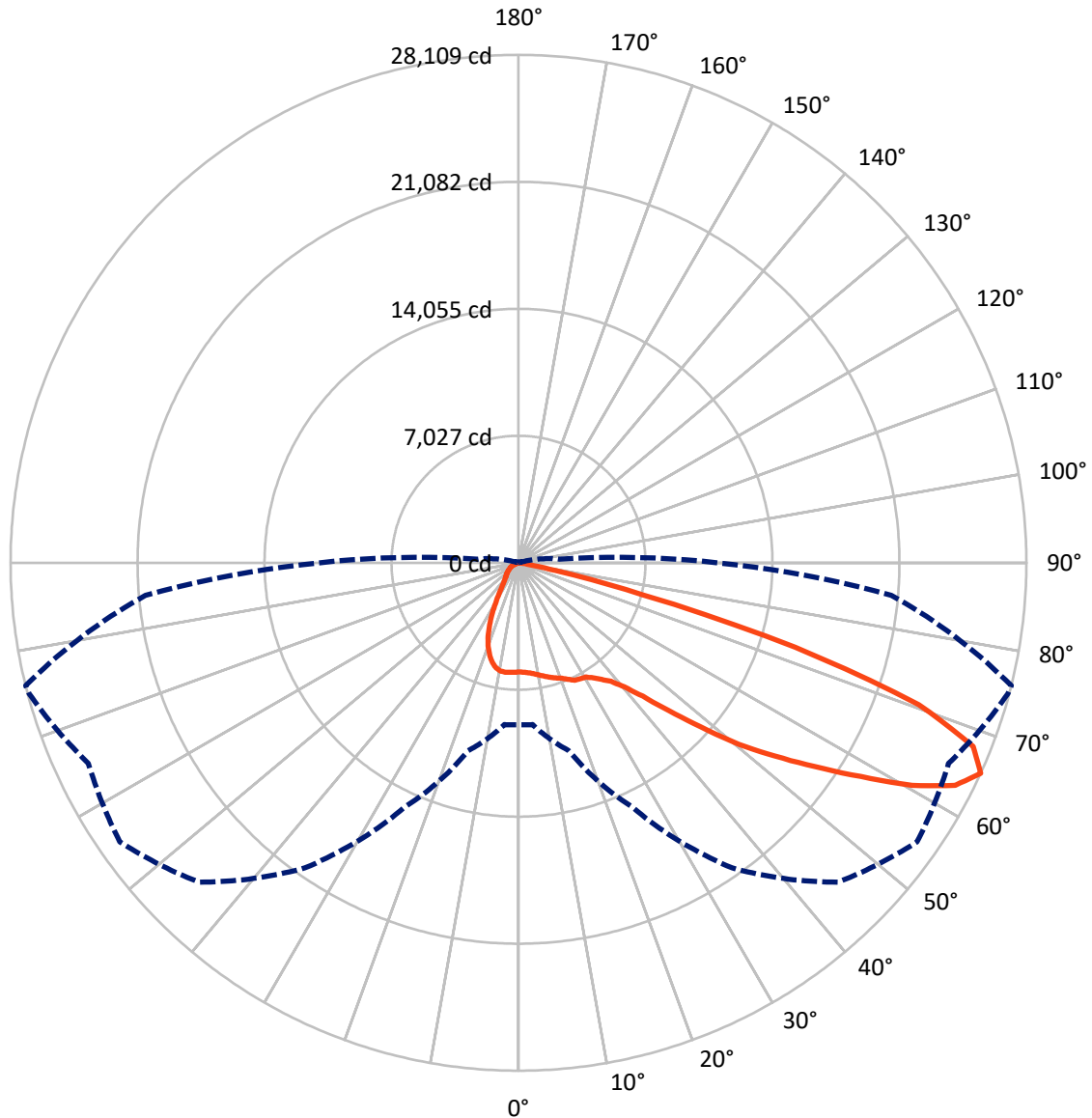
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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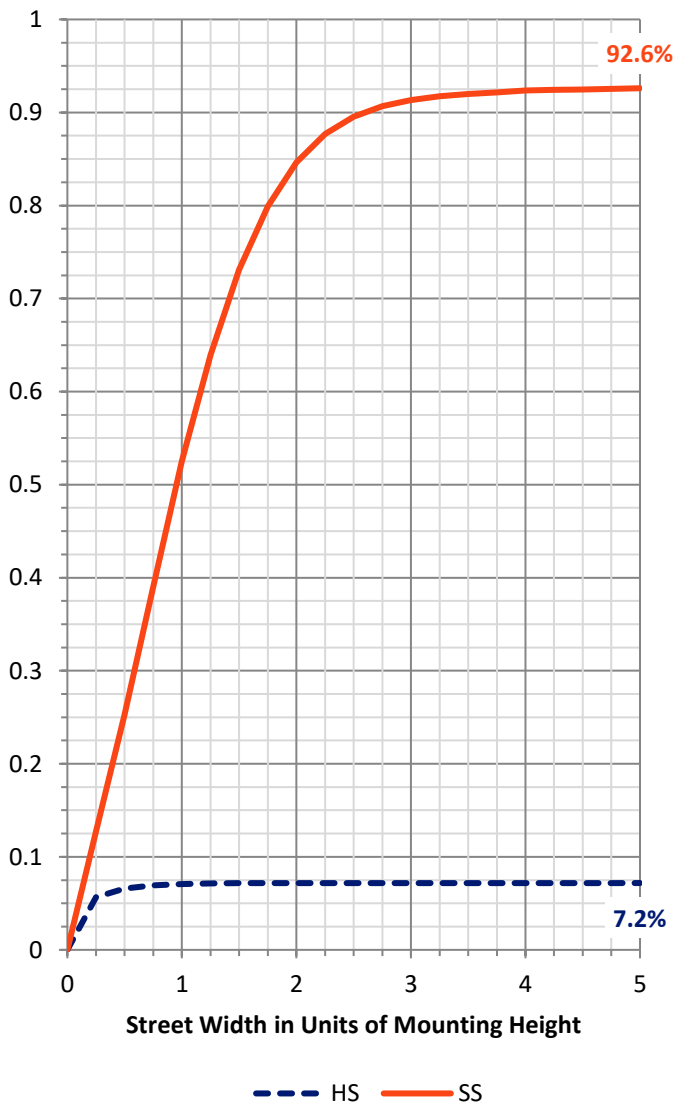
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2385.5	0.0	2385.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30646.1	0.0	30646.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	33031.6	0.0	33031.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.8	1.5
10°-20°	1108.3	3.4
20°-30°	1785.9	5.4
30°-40°	3105.3	9.4
40°-50°	5131.3	15.5
50°-60°	7926.8	24.0
60°-70°	9679.8	29.3
70°-80°	3673.7	11.1
80°-90°	122.6	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°	33031.6	100.0
0°-180°	33031.6	100.0

Coefficient of Utilization

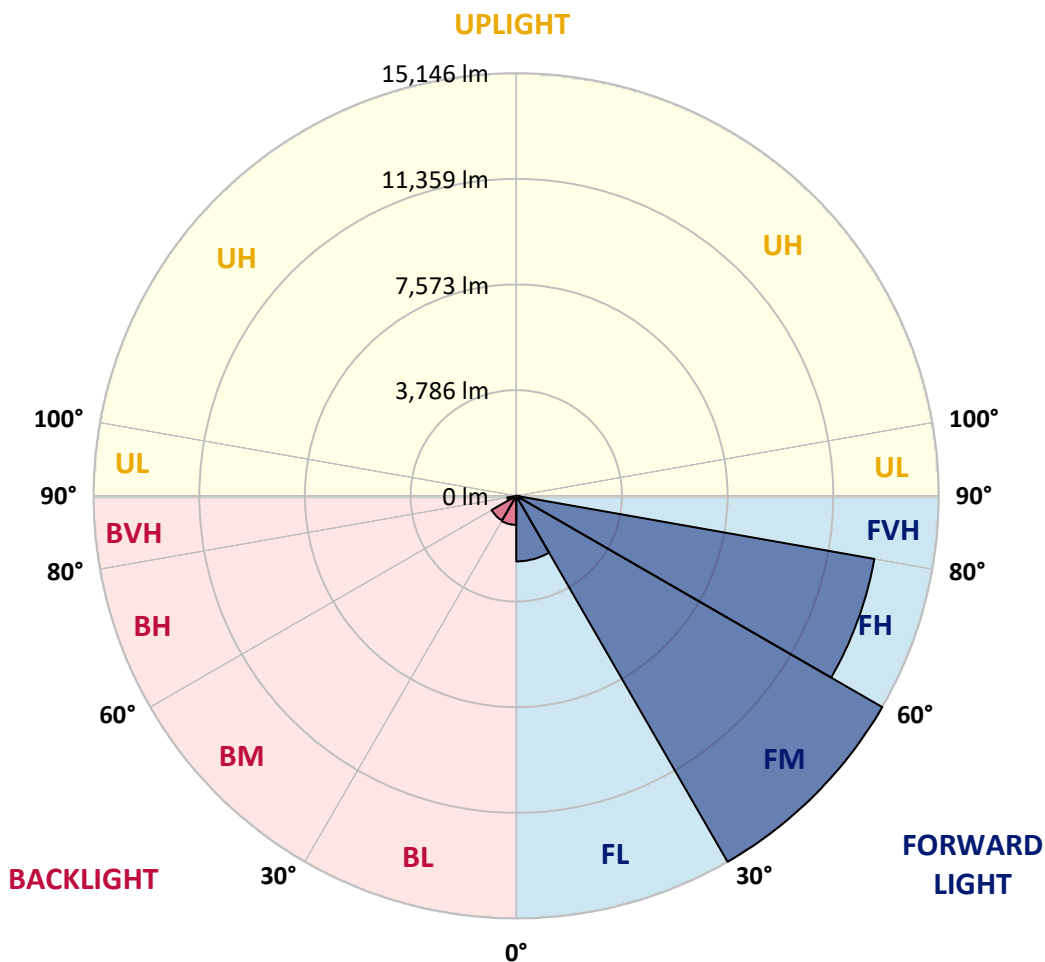


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.8	7.1			
FM (30°-60°)	15145.5	45.9			
FH (60°-80°)	13029.9	39.4			G5
FVH (80°-90°)	120.9	0.4			G2/225
BL (0°-30°)	1042.2	3.2	B3/2500		
BM (30°-60°)	1018.0	3.1	B2/2500		
BH (60°-80°)	323.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6
2.5°	5774.3	5776.7	5790.7	5825.7	5879.3	5923.6	5960.9	6021.6	6063.6	6068.2	6082.2
5°	5375.5	5347.6	5375.5	5466.5	5548.1	5671.7	5823.3	5974.9	6110.1	6119.5	6184.8
7.5°	4927.8	4951.1	4995.4	5088.7	5242.7	5431.5	5650.8	5921.3	6177.8	6201.1	6329.4
10°	4473.0	4524.3	4596.6	4738.9	4953.4	5198.3	5496.8	5883.9	6285.1	6317.7	6539.3
12.5°	4053.2	4076.5	4165.2	4356.4	4622.3	4967.4	5380.2	5862.9	6404.0	6443.7	6763.2
15°	3731.4	3761.7	3838.7	4011.2	4307.4	4750.5	5284.6	5856.0	6520.6	6576.6	6987.0
17.5°	3670.8	3689.4	3722.1	3838.7	4097.5	4578.0	5198.3	5853.6	6632.6	6700.2	7194.6
20°	3920.3	3904.0	3871.3	3859.6	4001.9	4445.0	5135.3	5872.3	6739.8	6816.8	7413.8
22.5°	4545.3	4566.3	4375.1	4148.9	4102.2	4424.0	5126.0	5960.9	6910.1	7001.0	7658.7
25°	5872.3	5711.4	5412.9	4871.8	4463.7	4552.3	5231.0	6170.8	7108.3	7208.6	7880.3
27.5°	7339.2	7290.2	6826.1	5935.3	5175.0	4822.8	5417.5	6331.7	7173.6	7276.3	8006.2
30°	8780.5	8838.7	8307.0	7322.9	6208.1	5324.2	5592.4	6392.3	7231.9	7339.2	8167.1
32.5°	10116.8	10186.8	9720.3	8745.5	7425.5	6191.8	5893.2	6627.9	7476.8	7586.4	8435.3
35°	11168.6	11177.9	10825.8	10049.1	8754.8	7245.9	6543.9	7040.7	7808.0	7936.3	8719.8
37.5°	12134.1	12120.1	11707.3	11038.0	9862.6	8293.1	7362.5	7516.4	8185.8	8318.7	9130.2
40°	12850.0	12859.4	12726.4	12096.7	10895.7	9260.9	8010.9	7961.9	8820.1	9027.7	9727.3
42.5°	13328.1	13414.4	13479.7	13160.2	12194.7	10452.6	9006.7	8915.7	9920.8	10093.4	10571.5
45°	13715.3	13869.1	14195.6	14179.3	13442.4	11914.8	10373.3	10186.8	11481.1	11665.3	11646.7
47.5°	13997.5	14153.7	14694.7	15021.2	14615.5	13332.8	12092.1	11931.2	13344.4	13545.0	12833.7
50°	14142.0	14328.6	15018.9	15650.9	15532.0	14699.4	14051.1	14060.4	15594.9	15788.5	14209.6
52.5°	13803.8	14046.4	15191.5	16329.5	16560.4	16007.7	15886.4	16194.3	17598.2	17763.8	15452.7
55°	12724.1	13029.6	14955.9	16907.9	17752.2	17551.6	17971.3	18440.1	19788.1	19895.4	16728.3
57.5°	12040.7	12364.9	14260.9	17400.0	19184.0	19491.9	20156.5	20499.4	22047.9	22320.8	18192.9
60°	11464.8	11718.9	13689.6	17505.0	20639.3	21866.1	22512.0	22866.5	24837.2	25014.4	19804.4
62.5°	10506.2	10797.7	12724.1	16772.6	21371.6	23766.7	25105.3	24946.8	26994.4	27118.0	20793.3
65°	8964.7	8990.3	10765.1	14932.6	20616.0	25000.4	26926.7	26262.1	28025.1	28109.2	20716.3
67.5°	6690.9	6938.1	8281.4	11737.6	17414.0	23946.3	27516.7	26297.1	27374.5	27141.3	19072.2
70°	4309.8	4498.6	5613.4	8139.1	12556.2	19984.0	25560.1	24494.4	24025.6	23507.9	15611.2
72.5°	1989.3	2231.9	3335.0	4650.2	7446.5	14235.3	20749.0	19900.0	17292.7	16014.7	9923.2
75°	867.6	928.2	1646.5	2453.4	3491.2	7528.1	13680.3	12353.3	7810.3	7134.0	3971.6
77.5°	529.4	569.0	862.9	1315.3	1371.3	2868.5	7369.5	5389.5	2413.8	2129.2	1077.4
80°	359.2	403.5	627.3	687.9	468.8	799.9	2765.9	1438.9	487.4	466.4	230.9
82.5°	174.9	221.6	464.1	384.8	202.9	256.5	804.6	307.9	142.3	133.0	81.6
85°	25.7	44.3	261.2	251.9	91.0	60.6	142.3	77.0	48.9	46.7	37.3
87.5°	0.0	0.0	88.6	39.6	9.3	9.3	16.3	16.3	18.6	16.3	18.6
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°	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6	6042.6
2.5°	6089.2	6100.8	6056.5	5993.6	5925.9	5858.3	5762.7	5676.4	5625.1	5655.4	5580.8
5°	6198.8	6189.5	6072.9	5881.7	5627.4	5321.9	5018.7	4759.9	4675.9	4550.0	4536.0
7.5°	6350.4	6324.8	6077.5	5639.1	5065.4	4491.7	3932.0	3561.2	3349.0	3169.3	3174.0
10°	6562.6	6487.9	6023.9	5212.3	4267.8	3402.6	2689.0	2199.2	1986.9	1919.4	1865.7
12.5°	6781.8	6637.3	5874.6	4636.3	3323.3	2325.1	1634.8	1336.3	1205.7	1163.7	1159.1
15°	6977.7	6749.1	5613.4	3943.7	2416.1	1485.6	1114.8	1016.8	1000.5	1002.8	1000.5
17.5°	7171.3	6837.8	5252.0	3209.0	1641.8	1065.8	958.5	935.2	942.2	951.5	949.2
20°	7332.2	6856.4	4790.2	2448.8	1161.4	935.2	900.2	895.5	902.6	909.5	909.5
22.5°	7507.1	6870.4	4242.1	1695.4	949.2	869.9	851.2	851.2	860.5	869.9	872.2
25°	7637.7	6793.5	3586.8	1217.4	837.3	806.9	797.6	799.9	809.2	813.9	811.6
27.5°	7658.7	6576.6	2891.9	932.9	760.3	730.0	720.6	730.0	718.3	725.3	720.6
30°	7677.4	6301.4	2187.5	785.9	690.3	643.7	629.7	615.7	606.4	594.7	592.3
32.5°	7735.6	5977.3	1597.5	706.7	625.0	573.7	541.1	501.4	471.1	461.7	459.5
35°	7761.3	5587.8	1173.1	643.7	566.7	510.8	452.4	396.4	352.1	335.8	347.5
37.5°	7859.3	5210.0	909.5	597.0	515.4	445.4	370.8	300.8	258.9	249.5	254.2
40°	8059.8	4799.6	762.6	557.3	471.1	384.8	293.9	226.2	198.3	188.9	186.6
42.5°	8381.7	4391.4	678.6	520.1	426.8	324.2	230.9	177.3	153.9	146.9	146.9
45°	8773.4	3999.6	620.4	480.4	380.1	261.2	181.9	142.3	128.3	123.6	123.6
47.5°	9288.9	3656.8	571.4	440.8	328.9	207.6	146.9	123.6	114.2	116.6	118.9
50°	9811.2	3402.6	517.7	396.4	270.5	170.2	125.9	109.6	107.3	109.6	109.6
52.5°	10205.4	3253.3	445.4	335.8	212.2	142.3	112.0	102.7	100.3	95.6	95.6
55°	10737.1	3220.6	354.5	272.9	167.9	118.9	100.3	93.3	86.3	81.6	79.3
57.5°	11420.4	3258.0	272.9	212.2	130.6	98.0	88.6	77.0	67.7	58.3	58.3
60°	11844.9	3174.0	212.2	163.3	95.6	79.3	67.7	56.0	44.3	37.3	35.0
62.5°	11709.6	2819.5	167.9	121.3	67.7	58.3	44.3	37.3	25.7	18.6	16.3
65°	11012.3	2276.2	135.3	83.9	48.9	35.0	23.3	23.3	11.7	2.3	0.0
67.5°	9638.7	1686.1	107.3	56.0	28.0	16.3	11.7	7.0	0.0	0.0	0.0
70°	7845.3	1217.4	83.9	35.0	16.3	11.7	4.7	2.3	0.0	0.0	0.0
72.5°	4981.4	697.3	65.3	21.0	11.7	4.7	0.0	0.0	0.0	0.0	0.0
75°	1926.3	272.9	44.3	14.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	545.8	128.3	25.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	142.3	56.0	14.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.7	23.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.6	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	2.3	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)