

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: P646853

Luminaire Tested: **GALN-SA3C-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13156.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

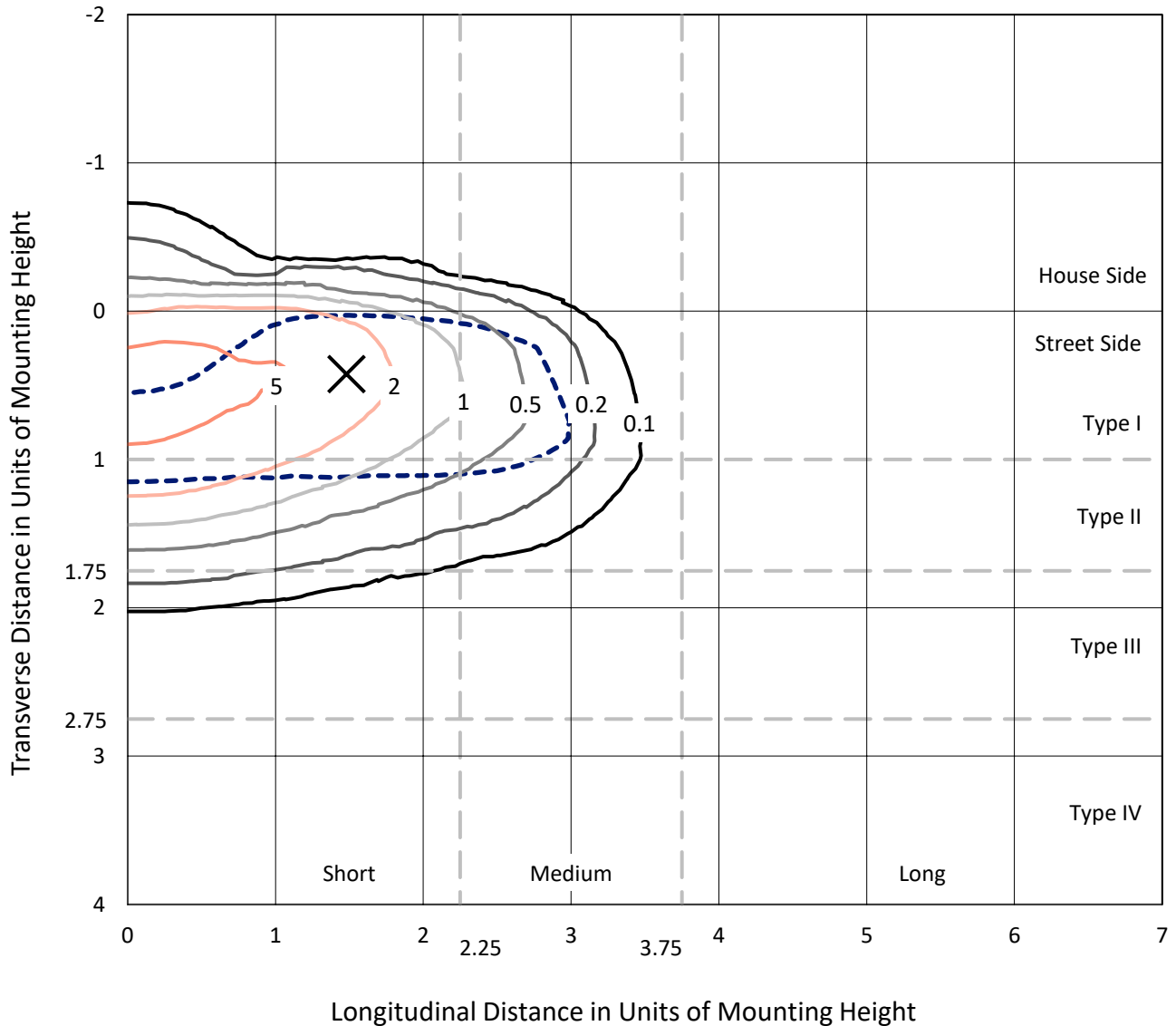
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

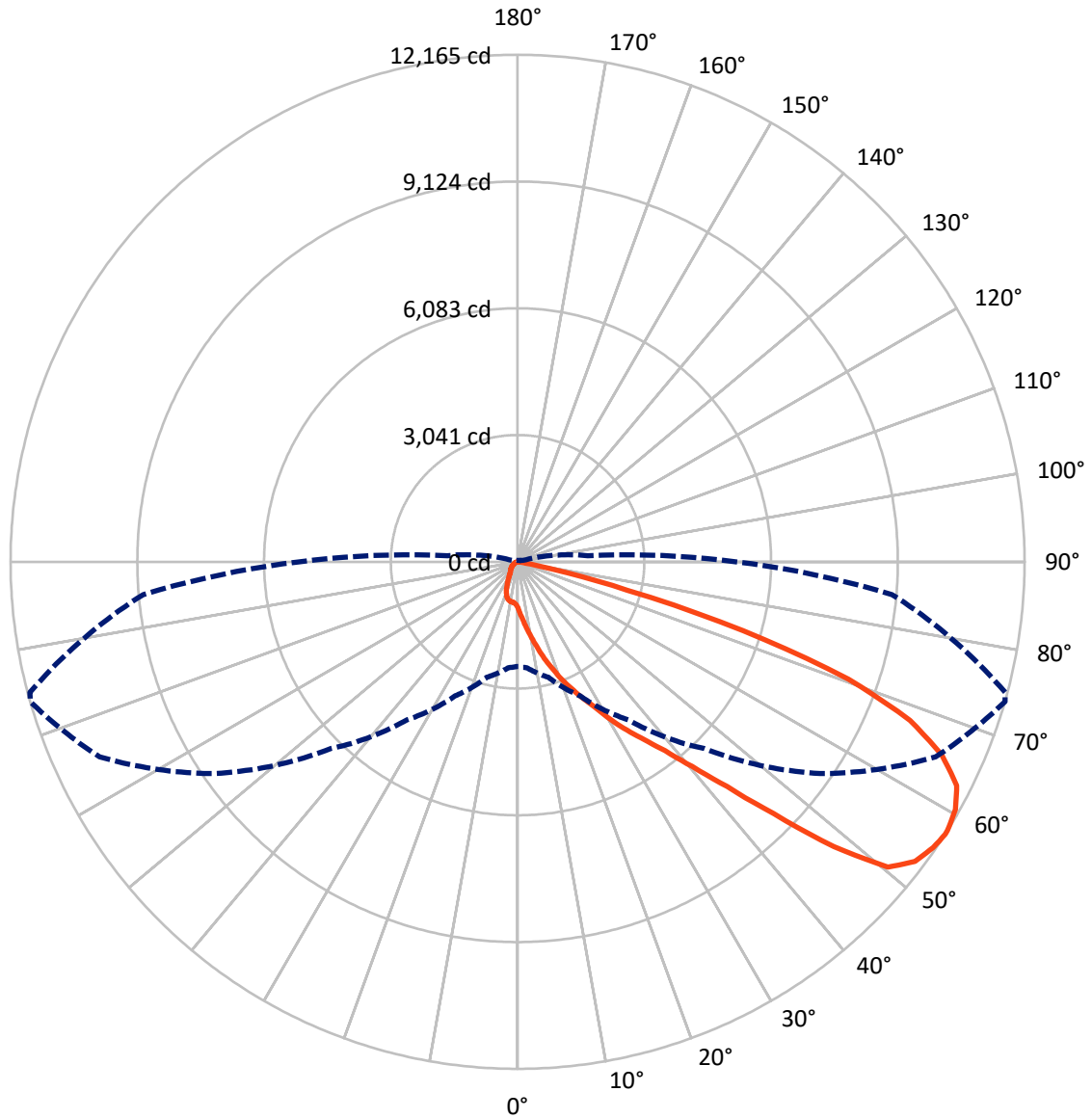
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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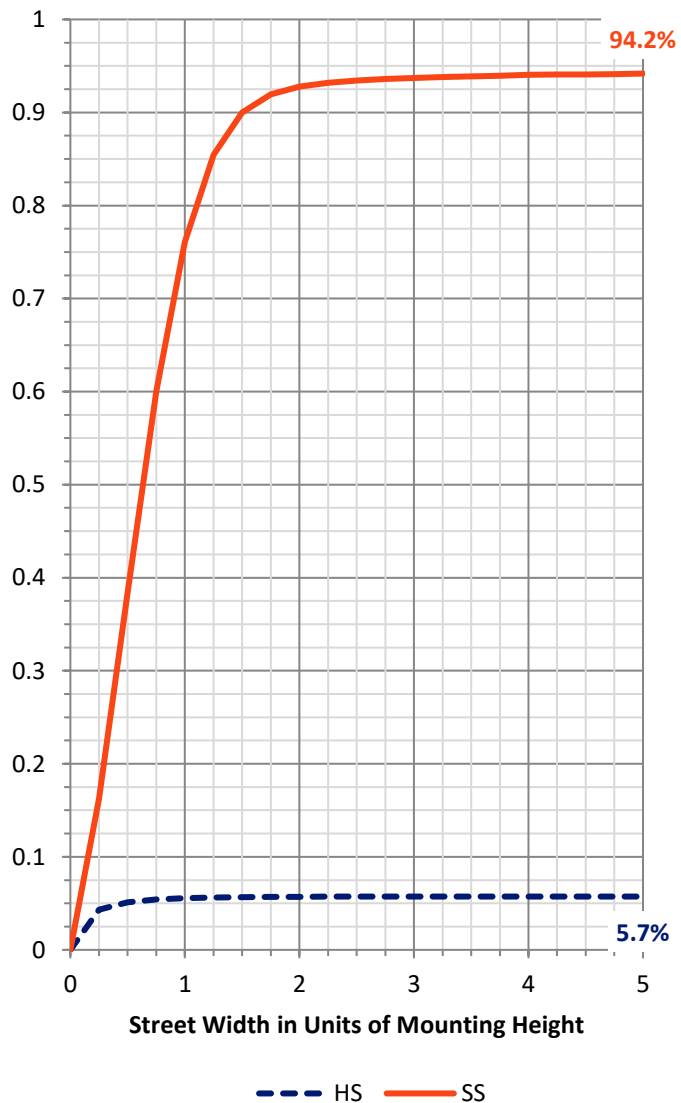
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.8	0.0	758.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	12397.9	0.0	12397.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	13156.7	0.0	13156.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.0
10°-20°	524.2	4.0
20°-30°	1121.7	8.5
30°-40°	2061.7	15.7
40°-50°	3160.6	24.0
50°-60°	3343.5	25.4
60°-70°	2183.4	16.6
70°-80°	596.6	4.5
80°-90°	32.1	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°	13156.7	100.0
0°-180°	13156.7	100.0

Coefficient of Utilization



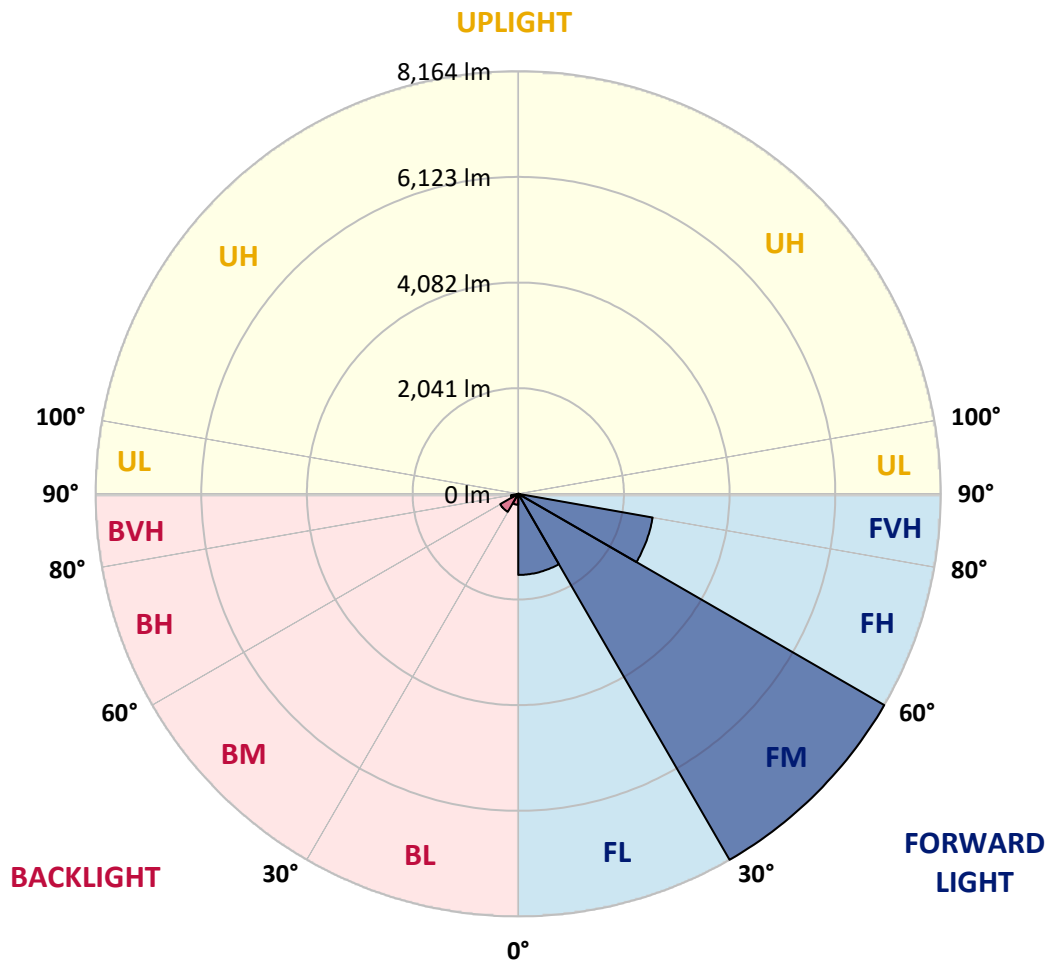
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.0	11.9			
FM (30°-60°)	8164.0	62.1			
FH (60°-80°)	2637.5	20.0			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	212.0	1.6	B1/500		
BM (30°-60°)	401.7	3.1	B1/1000		
BH (60°-80°)	142.5	1.1	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: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1612.4	1597.9	1568.7	1558.8	1516.0	1449.8	1391.6	1313.5	1251.7	1245.4	1170.9
5°	2159.2	2126.5	2112.8	2047.5	1944.8	1848.6	1683.2	1557.9	1413.5	1402.5	1252.6
7.5°	2686.1	2640.7	2627.0	2565.3	2445.4	2293.6	2079.3	1851.2	1622.4	1601.5	1362.6
10°	3067.6	3074.0	3049.4	3008.5	2911.4	2756.9	2492.6	2181.0	1854.9	1828.5	1486.1
12.5°	3341.0	3340.1	3344.7	3343.7	3292.0	3174.8	2896.8	2538.0	2111.0	2059.3	1627.8
15°	3519.0	3521.8	3535.4	3582.6	3588.1	3515.4	3283.7	2879.6	2408.1	2343.6	1781.3
17.5°	3698.9	3718.0	3739.8	3784.3	3824.3	3795.2	3631.7	3235.7	2677.0	2628.8	1945.8
20°	3996.0	4022.3	4009.6	4036.8	4057.7	4060.5	3934.2	3564.5	3003.1	2922.2	2133.8
22.5°	4471.0	4470.1	4437.4	4388.4	4347.5	4345.7	4231.3	3902.4	3299.2	3221.1	2322.7
25°	5071.5	5074.2	5010.6	4870.7	4768.9	4644.5	4512.8	4198.5	3616.3	3520.0	2521.7
27.5°	5760.0	5742.8	5646.4	5453.9	5252.2	5039.7	4849.8	4542.8	3952.3	3872.4	2749.7
30°	6378.6	6372.3	6259.6	6024.3	5759.1	5545.7	5270.4	4974.2	4387.5	4289.4	3004.9
32.5°	6954.5	6963.6	6807.4	6563.9	6307.8	6061.6	5770.9	5386.6	4814.4	4675.4	3282.9
35°	7404.2	7413.3	7251.6	7049.0	6785.6	6581.2	6304.2	5826.3	5235.8	5118.7	3602.6
37.5°	7644.0	7655.8	7562.2	7409.6	7245.2	7142.5	6884.6	6392.3	5748.2	5677.4	3980.5
40°	7689.4	7703.0	7662.1	7621.3	7612.2	7685.8	7610.4	7059.0	6458.6	6347.7	4543.7
42.5°	7553.1	7571.3	7589.5	7680.3	7865.6	8135.4	8397.9	7963.7	7373.3	7224.3	5232.2
45°	7195.2	7193.4	7265.2	7500.4	7915.6	8491.5	9220.9	9096.5	8619.6	8442.5	6205.1
47.5°	6583.0	6573.9	6729.3	7064.5	7711.2	8556.9	9892.2	10471.8	10210.2	10046.7	7250.7
50°	5650.1	5694.6	5939.0	6406.7	7203.4	8358.9	10099.3	11373.8	11515.5	11342.0	8095.4
52.5°	4557.3	4555.5	4938.9	5573.8	6451.3	7922.9	9954.9	11537.3	11939.7	11807.1	8511.5
55°	3372.8	3396.4	3795.2	4435.6	5474.8	7127.1	9483.5	11369.2	12101.4	12007.9	8785.8
57°	2509.0	2550.7	2870.5	3548.1	4624.6	6339.6	8855.7	11068.6	12165.0	12114.1	9013.8
57.5°	2341.8	2343.6	2655.2	3271.1	4375.6	6037.1	8675.9	10943.2	12163.1	12135.0	9051.1
60°	1441.6	1487.0	1702.3	2211.0	3202.9	4711.8	7470.5	10222.8	12068.7	12109.6	9210.0
62.5°	862.9	882.0	1021.9	1332.6	2064.8	3439.1	6113.4	9300.9	11822.5	11946.9	9199.2
65°	555.0	559.5	623.1	806.6	1290.8	2324.6	4710.8	8082.8	11185.8	11414.7	8839.4
67.5°	428.8	436.1	461.4	529.6	748.5	1447.9	3331.9	6782.8	10155.7	10450.9	7967.3
70°	380.6	384.2	393.3	415.1	495.1	817.5	2072.9	5298.6	8421.6	8505.1	6235.1
72.5°	310.7	320.6	348.8	356.1	392.4	510.5	1153.7	3556.3	5658.3	5679.2	3488.2
75°	240.7	242.6	284.3	305.2	330.7	351.6	515.1	1793.1	2717.9	2572.5	1344.4
77.5°	179.9	188.0	207.1	233.5	269.8	251.7	230.8	675.8	843.9	828.4	390.6
80°	115.3	119.9	144.5	175.3	209.8	164.4	129.9	198.0	185.3	190.7	93.6
82.5°	58.1	59.0	92.6	142.6	133.5	82.7	81.7	80.9	69.1	68.1	43.6
85°	6.3	13.6	60.0	81.7	60.0	27.2	38.1	37.3	36.3	37.3	25.4
87.5°	0.9	0.9	10.0	11.8	8.1	9.1	10.9	11.8	14.6	13.6	10.9
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°	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8	1101.8
2.5°	1134.6	1098.2	1031.0	966.5	918.4	887.5	847.5	833.0	812.1	809.4	799.4
5°	1183.6	1114.6	997.4	904.8	830.3	773.9	724.9	684.0	651.3	644.0	647.7
7.5°	1253.6	1150.9	987.4	861.1	757.6	661.3	583.2	535.0	500.5	487.8	489.6
10°	1332.6	1199.1	985.6	814.8	656.8	538.7	453.3	410.6	390.6	383.4	375.1
12.5°	1426.2	1254.4	981.0	743.1	545.9	429.6	368.8	343.3	324.3	318.8	318.8
15°	1531.5	1313.5	959.3	654.0	443.3	355.2	314.3	294.3	288.0	282.5	282.5
17.5°	1641.4	1371.7	913.8	544.1	367.9	304.3	278.9	267.1	258.0	251.7	251.7
20°	1766.8	1428.9	841.2	446.9	310.7	271.6	251.7	238.0	230.8	225.3	223.5
22.5°	1885.8	1475.2	748.5	367.0	270.7	244.4	226.2	211.6	204.4	201.6	201.6
25°	2009.3	1503.4	636.7	303.4	247.1	221.7	201.6	189.9	183.5	181.7	180.8
27.5°	2129.2	1519.7	538.7	265.3	225.3	200.8	181.7	172.6	166.2	164.4	165.3
30°	2274.5	1522.5	443.3	238.0	206.2	180.8	163.5	155.3	151.7	149.9	149.0
32.5°	2421.7	1518.8	372.5	221.7	188.0	163.5	149.0	142.6	139.9	137.2	137.2
35°	2587.0	1499.8	317.0	205.3	170.8	149.0	136.2	130.8	127.2	124.4	123.6
37.5°	2792.3	1489.7	285.2	187.1	155.3	135.4	123.6	118.1	115.3	111.7	110.8
40°	3115.7	1534.2	275.2	170.8	139.9	122.6	111.7	105.4	101.7	98.1	97.2
42.5°	3519.0	1612.4	258.9	154.4	126.3	110.8	99.9	92.6	86.3	81.7	79.9
45°	4041.4	1715.0	233.5	137.2	114.5	98.1	88.1	79.0	70.9	67.2	66.3
47.5°	4589.1	1814.1	210.7	123.6	101.7	87.2	76.3	66.3	59.0	56.3	55.4
50°	4925.2	1834.0	196.2	108.1	89.0	75.4	64.5	55.4	50.9	48.2	48.2
52.5°	5078.7	1802.2	176.3	94.5	77.2	66.3	55.4	48.2	45.4	43.6	42.7
55°	5185.9	1753.1	149.9	81.7	66.3	56.3	49.0	43.6	39.9	38.1	37.3
57°	5248.6	1686.8	129.9	71.7	57.2	49.0	43.6	39.1	35.4	31.8	31.8
57.5°	5251.3	1661.4	124.4	70.9	54.5	47.2	42.7	38.1	33.6	30.0	29.0
60°	5170.5	1487.0	99.9	60.0	43.6	39.9	35.4	30.0	23.6	20.0	19.1
62.5°	4910.7	1265.4	82.7	50.9	35.4	30.9	25.4	22.7	16.4	11.8	11.8
65°	4517.4	1026.4	70.9	40.9	29.0	22.7	17.2	16.4	10.0	5.5	4.5
67.5°	3948.7	799.4	60.0	33.6	24.5	16.4	11.8	10.9	5.5	1.8	0.0
70°	3008.5	545.0	50.0	27.2	18.2	11.8	8.1	6.3	3.6	0.9	0.0
72.5°	1734.1	299.7	41.8	20.9	13.6	9.1	6.3	3.6	3.6	0.0	0.0
75°	619.5	129.0	31.8	15.4	10.9	7.3	4.5	1.8	2.7	0.9	0.0
77.5°	197.1	69.1	20.9	11.8	9.1	5.5	3.6	1.8	1.8	0.9	0.0
80°	58.1	36.3	12.7	10.0	6.3	4.5	2.7	0.9	1.8	0.9	0.0
82.5°	31.8	18.2	10.0	7.3	6.3	3.6	2.7	0.9	0.9	0.9	0.0
85°	16.4	10.9	8.1	7.3	6.3	3.6	2.7	0.9	0.0	0.9	0.9
87.5°	9.1	8.1	8.1	7.3	6.3	4.5	2.7	0.9	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)