

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: P647539

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34566.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

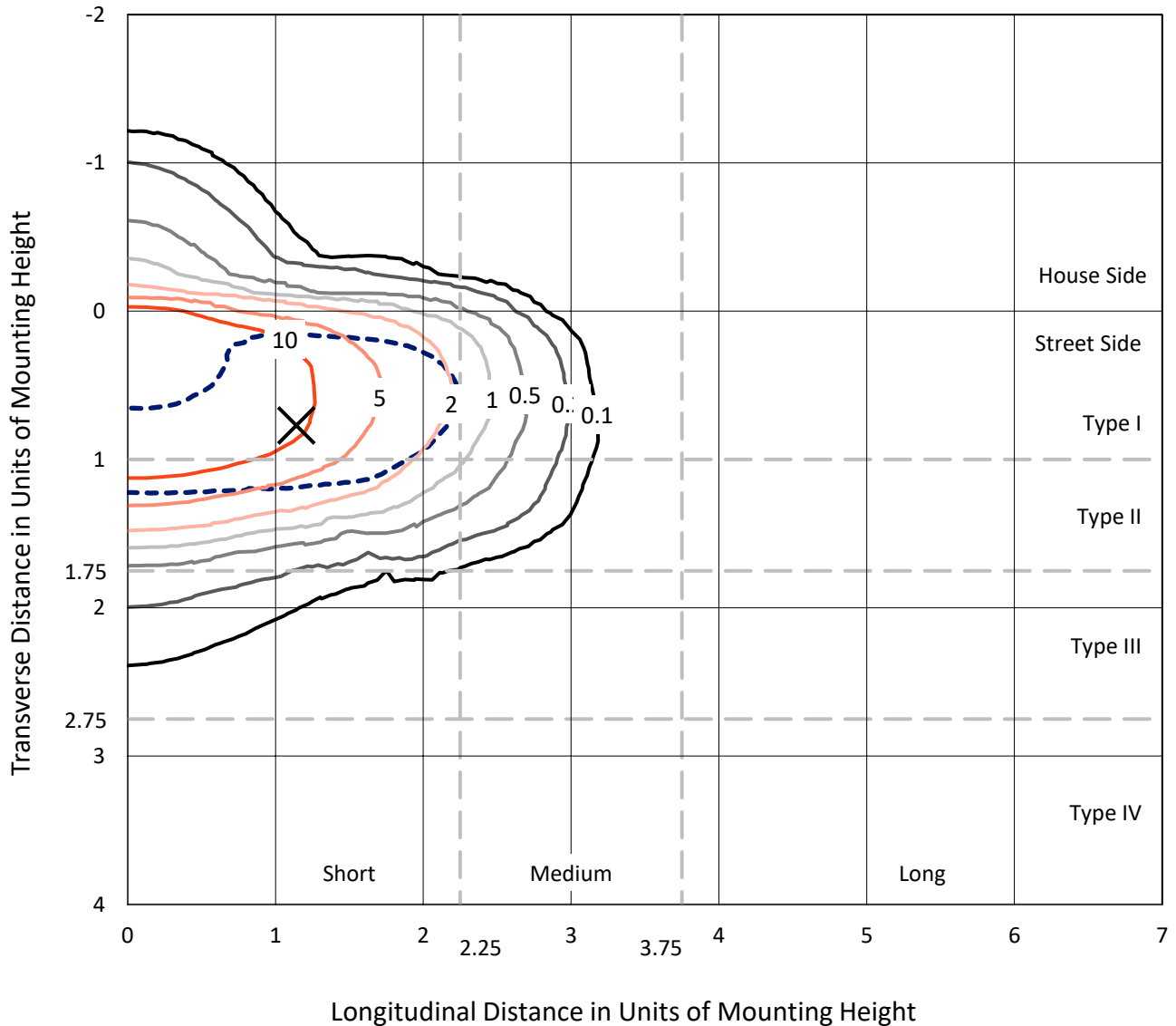
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

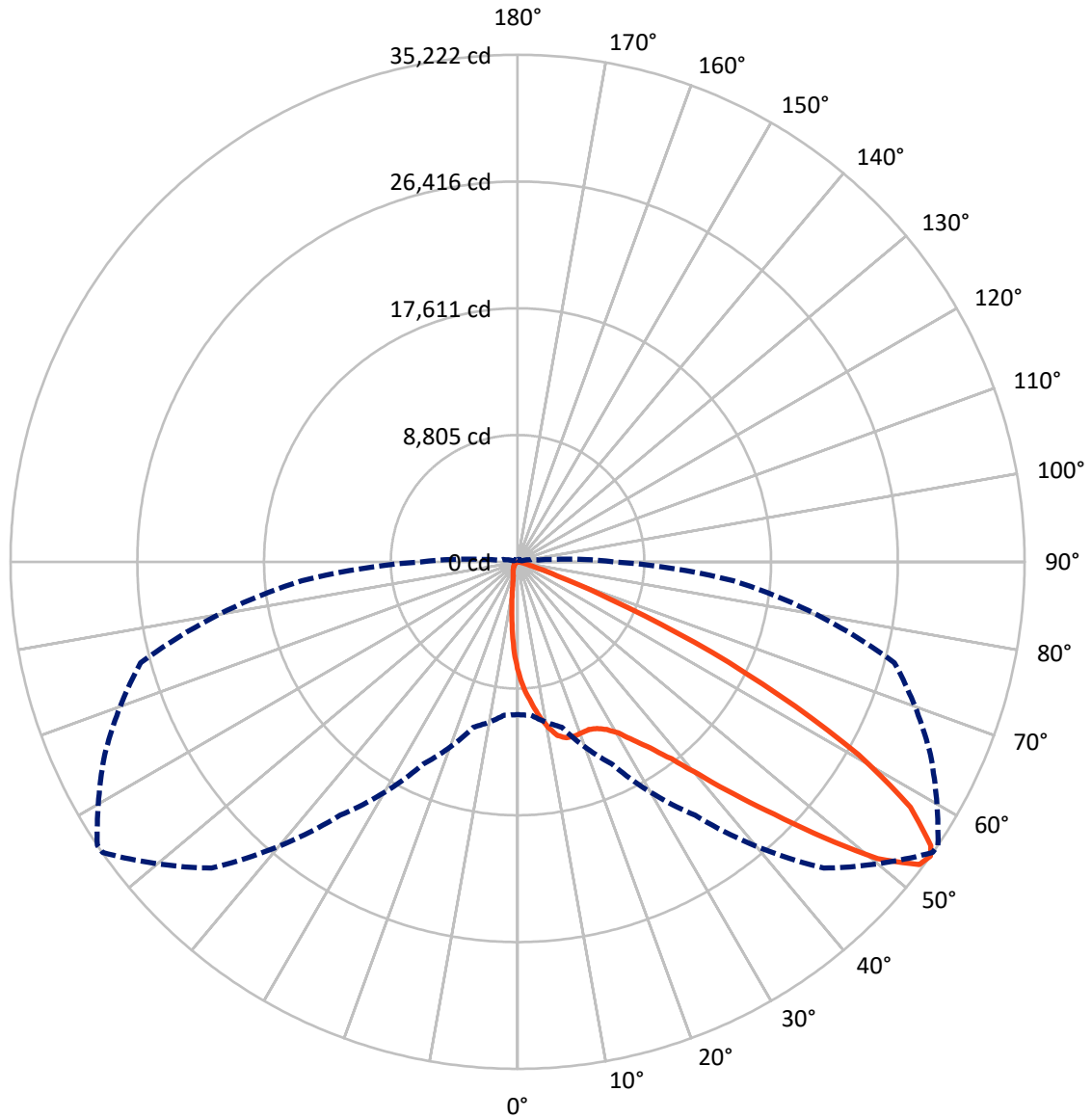
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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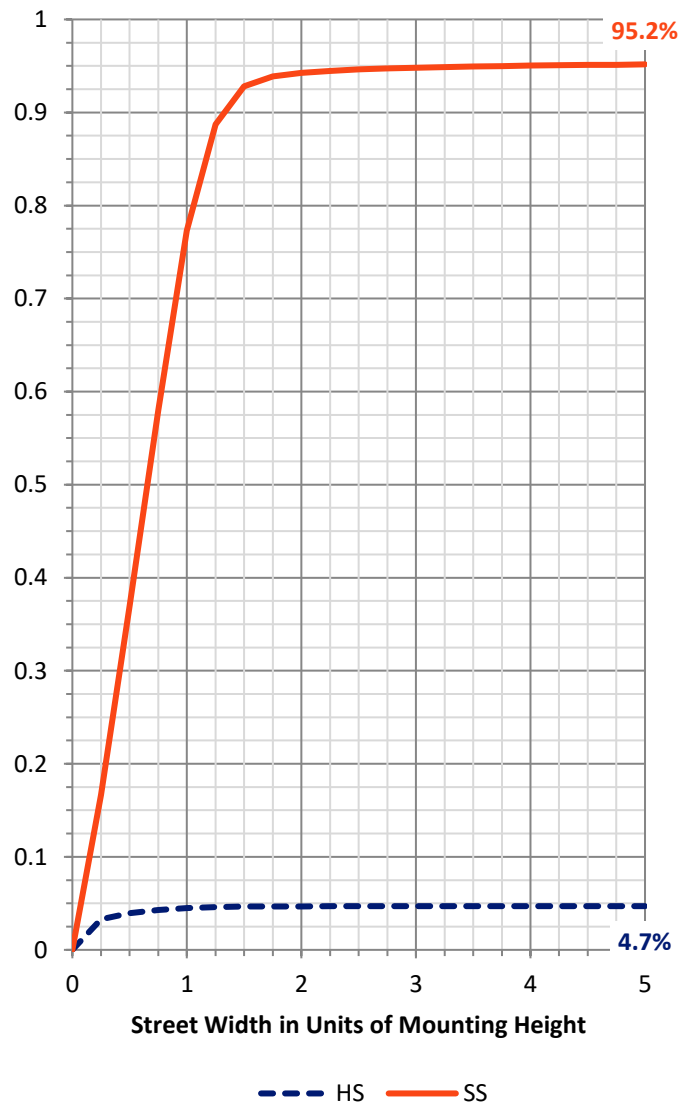
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.6	0.0	1634.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	32931.8	0.0	32931.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	34566.3	0.0	34566.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.6	2.0
10°-20°	1834.5	5.3
20°-30°	3177.3	9.2
30°-40°	5484.4	15.9
40°-50°	9334.7	27.0
50°-60°	9237.9	26.7
60°-70°	4216.4	12.2
70°-80°	541.5	1.6
80°-90°	61.0	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°	34566.3	100.0
0°-180°	34566.3	100.0

Coefficient of Utilization

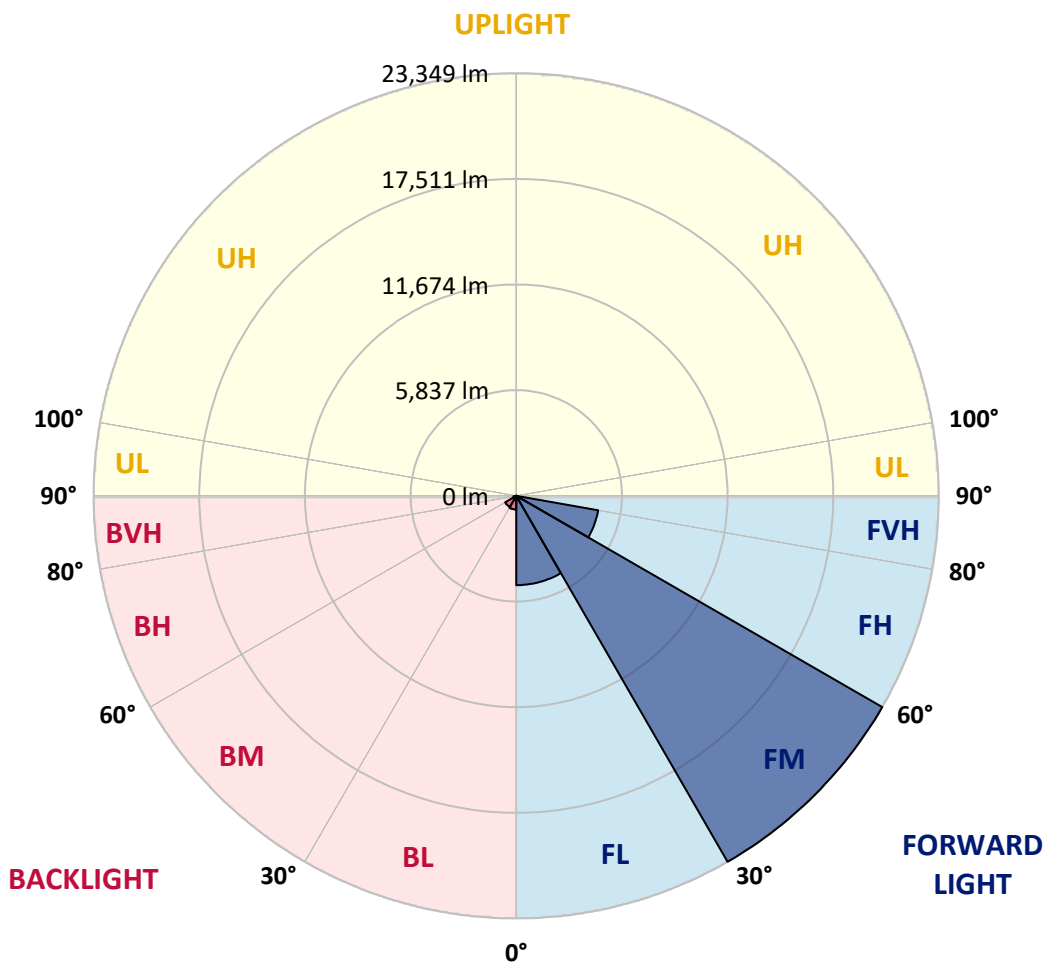


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4934.5	14.3			
FM (30°-60°)	23348.6	67.5			
FH (60°-80°)	4594.2	13.3			G2/5000
FVH (80°-90°)	54.5	0.2			G1/100
BL (0°-30°)	755.9	2.2	B2/1000		
BM (30°-60°)	708.4	2.0	B1/1000		
BH (60°-80°)	163.7	0.5	B1/500		G1/500
BVH (80°-90°)	6.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7
2.5°	9759.9	9692.3	9599.0	9526.7	9356.5	9111.5	8852.7	8852.7	8603.1	8255.6	7901.2
5°	11257.1	11212.8	11121.8	10935.3	10744.0	10401.2	9881.1	9790.2	9344.8	8715.1	8052.8
7.5°	11865.8	11886.8	11891.4	11842.5	11751.5	11413.3	10898.0	10835.0	10123.7	9279.5	8251.0
10°	11282.7	11385.4	11485.7	11688.5	11975.4	12057.0	11765.5	11700.2	11000.6	9850.8	8465.6
12.5°	10415.2	10471.2	10527.1	10846.7	11422.7	12082.6	12388.2	12385.8	11793.5	10419.9	8738.4
15°	10011.8	10060.7	10065.4	10207.7	10706.7	11667.6	12654.1	12689.0	12567.8	11121.8	9032.3
17.5°	10095.7	10135.4	10102.7	10137.7	10398.9	11210.4	12623.7	12740.3	13195.1	11795.8	9298.1
20°	10643.8	10720.7	10594.8	10496.8	10576.1	11089.2	12521.1	12684.4	13638.2	12453.5	9540.7
22.5°	11627.9	11669.9	11511.3	11243.1	11103.2	11343.4	12493.2	12654.1	14016.0	12992.2	9680.6
25°	12721.6	12707.7	12532.8	12231.9	11938.1	11856.4	12677.3	12821.9	14328.5	13477.3	9722.6
27.5°	13815.4	13857.4	13563.6	13190.4	12838.3	12626.0	13090.1	13197.4	14680.6	14030.0	9773.9
30°	15086.5	15018.8	14729.6	14302.8	13899.3	13603.2	13754.8	13785.1	15165.7	14762.3	9909.2
32.5°	16739.9	16553.3	16229.2	15482.9	15193.7	14692.3	14729.6	14766.9	15755.8	15487.6	10072.4
35°	18983.4	18974.0	18339.7	17334.6	16630.3	16007.6	15844.4	15874.7	16648.9	16565.0	10433.9
37.5°	21683.9	21721.3	20998.3	19986.2	18689.5	17700.7	17364.9	17369.6	18006.3	18052.8	10984.2
40°	23883.1	23981.1	23549.7	22866.3	21586.1	20039.9	19475.5	19424.1	19913.9	19855.6	11770.1
42.5°	24830.0	24920.9	25081.8	25319.7	24615.4	23339.7	22008.2	22078.1	22227.3	21819.2	12651.7
45°	24365.9	24510.5	25142.5	26611.7	27274.0	26844.9	25256.8	25011.9	24379.9	23953.1	13537.9
47.5°	22432.6	22784.8	23841.2	26287.6	28605.7	30056.2	28922.8	28598.7	26534.8	25511.0	14102.3
50°	19253.9	19274.9	20746.4	23873.8	27915.4	32082.9	32665.9	32423.3	28542.7	26385.5	14386.8
52.5°	13957.7	14417.1	15765.1	19386.8	24925.6	31775.0	35051.6	34951.3	30613.7	26833.3	14797.2
54°	10611.1	10699.7	11898.5	15492.2	21490.4	30084.3	35198.6	35221.8	31642.0	27103.8	15039.8
55°	8698.7	8486.5	9745.9	13197.4	19146.6	28589.4	34718.1	34830.1	32103.9	27243.7	15219.3
57.5°	4123.2	4125.5	5088.6	6961.3	11991.7	22199.4	31782.0	32178.5	32155.1	27483.9	15772.0
60°	2087.2	2101.3	2313.5	3213.7	5923.6	14757.6	26278.3	27222.7	29680.8	27518.9	15953.9
62.5°	1459.9	1443.5	1408.6	1546.2	2493.0	7500.0	19564.1	20385.0	25217.1	26187.3	15375.6
65°	1250.0	1215.1	1117.1	1096.1	1259.4	2987.5	12185.3	13523.9	19253.9	22675.1	13729.1
67.5°	1068.1	1054.2	965.5	911.9	890.9	1301.3	6287.3	6991.6	13160.1	16299.2	10398.9
70°	907.2	900.2	846.6	778.9	720.6	778.9	2332.1	2889.5	7334.5	8775.7	4906.7
72.5°	737.0	743.9	753.2	667.0	606.4	552.7	995.8	1159.1	3069.0	3136.7	1716.4
75°	646.0	639.0	639.0	580.7	506.1	410.4	548.0	590.0	939.8	872.2	398.8
77.5°	454.8	438.4	513.1	478.1	422.1	291.5	312.5	331.1	389.5	333.5	186.6
80°	314.8	314.8	328.9	429.1	380.1	212.2	191.2	205.2	230.9	198.3	107.3
82.5°	177.3	181.9	214.5	228.6	221.6	142.3	125.9	128.3	153.9	135.2	67.7
85°	21.0	35.0	123.6	121.3	91.0	63.0	70.0	72.3	95.6	83.9	39.6
87.5°	2.3	4.7	25.7	32.7	23.3	25.7	25.7	25.7	32.7	37.3	28.0
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°	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7	7679.7
2.5°	7710.0	7532.7	7110.6	6620.9	6308.4	5800.0	5370.8	5060.7	4983.7	4834.5	4878.8
5°	7700.6	7332.2	6471.6	5562.1	4591.9	3869.0	3330.3	2905.8	2719.3	2595.6	2509.4
7.5°	7705.3	7129.3	5748.6	4300.4	3141.3	2432.4	1933.3	1674.4	1501.9	1429.6	1438.9
10°	7719.3	6900.7	4909.1	3185.6	2119.9	1571.9	1266.3	1142.7	1084.5	1075.1	1072.8
12.5°	7751.9	6651.2	4106.8	2364.7	1483.2	1142.7	1026.1	984.2	965.5	965.5	958.5
15°	7786.9	6376.0	3439.9	1758.4	1142.7	981.8	928.2	907.2	895.5	895.5	893.2
17.5°	7786.9	6058.9	2817.2	1364.3	984.2	902.6	860.5	832.6	823.2	823.2	820.9
20°	7737.9	5690.4	2264.5	1098.4	893.2	827.9	785.9	755.6	743.9	739.3	737.0
22.5°	7567.7	5198.3	1802.7	944.5	818.5	762.6	708.9	674.0	664.7	660.0	662.3
25°	7264.5	4643.3	1427.3	830.2	751.0	683.3	636.7	611.0	601.7	601.7	604.0
27.5°	6952.0	4062.5	1131.0	743.9	669.3	608.7	571.4	555.1	552.7	559.7	562.0
30°	6662.9	3479.5	916.5	674.0	597.0	545.8	520.1	515.4	515.4	517.7	520.1
32.5°	6341.0	2968.7	767.3	613.3	538.7	494.4	480.4	480.4	485.1	485.1	489.8
35°	6138.1	2530.3	674.0	555.1	494.4	457.1	447.8	450.1	457.1	466.4	471.1
37.5°	6028.5	2180.5	613.3	508.4	452.4	426.8	417.4	422.1	438.4	454.8	457.1
40°	6037.9	1917.0	564.4	468.8	419.8	391.8	384.8	398.8	415.1	431.4	433.8
42.5°	6140.4	1721.1	517.7	422.1	391.8	352.1	349.8	363.8	370.8	387.1	389.5
45°	6261.7	1578.8	468.8	373.1	340.5	305.5	307.9	319.5	328.9	354.5	359.2
47.5°	6299.0	1480.9	412.8	317.2	279.8	268.2	270.5	277.5	296.2	319.5	321.8
50°	6341.0	1420.3	359.2	268.2	237.9	235.5	237.9	242.6	254.2	263.6	261.2
52.5°	6520.6	1417.9	314.8	233.2	202.9	207.6	209.9	207.6	198.3	184.2	179.5
54°	6688.5	1424.9	293.9	216.9	186.6	193.6	191.2	179.5	156.3	142.3	135.2
55°	6823.8	1432.0	282.2	205.2	177.3	179.5	181.9	158.6	128.3	114.2	109.6
57.5°	7089.6	1415.6	254.2	179.5	156.3	146.9	144.6	104.9	70.0	60.6	56.0
60°	6956.7	1278.0	230.9	153.9	133.0	118.9	98.0	58.3	35.0	25.7	25.7
62.5°	6434.3	1084.5	205.2	125.9	109.6	91.0	51.3	32.7	16.3	9.3	7.0
65°	5755.7	911.9	184.2	100.3	86.3	58.3	28.0	21.0	7.0	0.0	0.0
67.5°	4279.4	676.3	156.3	79.3	65.3	37.3	18.6	11.7	2.3	0.0	0.0
70°	1982.3	412.8	133.0	60.6	46.7	28.0	14.0	7.0	0.0	0.0	0.0
72.5°	569.0	258.9	109.6	44.3	32.7	23.3	11.7	4.7	2.3	0.0	0.0
75°	198.3	207.6	81.6	32.7	25.7	16.3	9.3	4.7	2.3	0.0	0.0
77.5°	118.9	167.9	51.3	28.0	21.0	14.0	9.3	4.7	2.3	2.3	0.0
80°	67.7	112.0	32.7	23.3	18.6	11.7	7.0	4.7	2.3	2.3	0.0
82.5°	37.3	53.6	25.7	21.0	16.3	11.7	7.0	4.7	2.3	2.3	2.3
85°	30.3	28.0	21.0	18.6	14.0	9.3	7.0	2.3	0.0	0.0	0.0
87.5°	23.3	18.6	18.6	18.6	14.0	9.3	7.0	2.3	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)