

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: P457298

Luminaire Tested: **GALN-SA8C-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457298
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-SA8C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 34192 lumens
Efficiency: N/A
Efficacy: 79.7 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

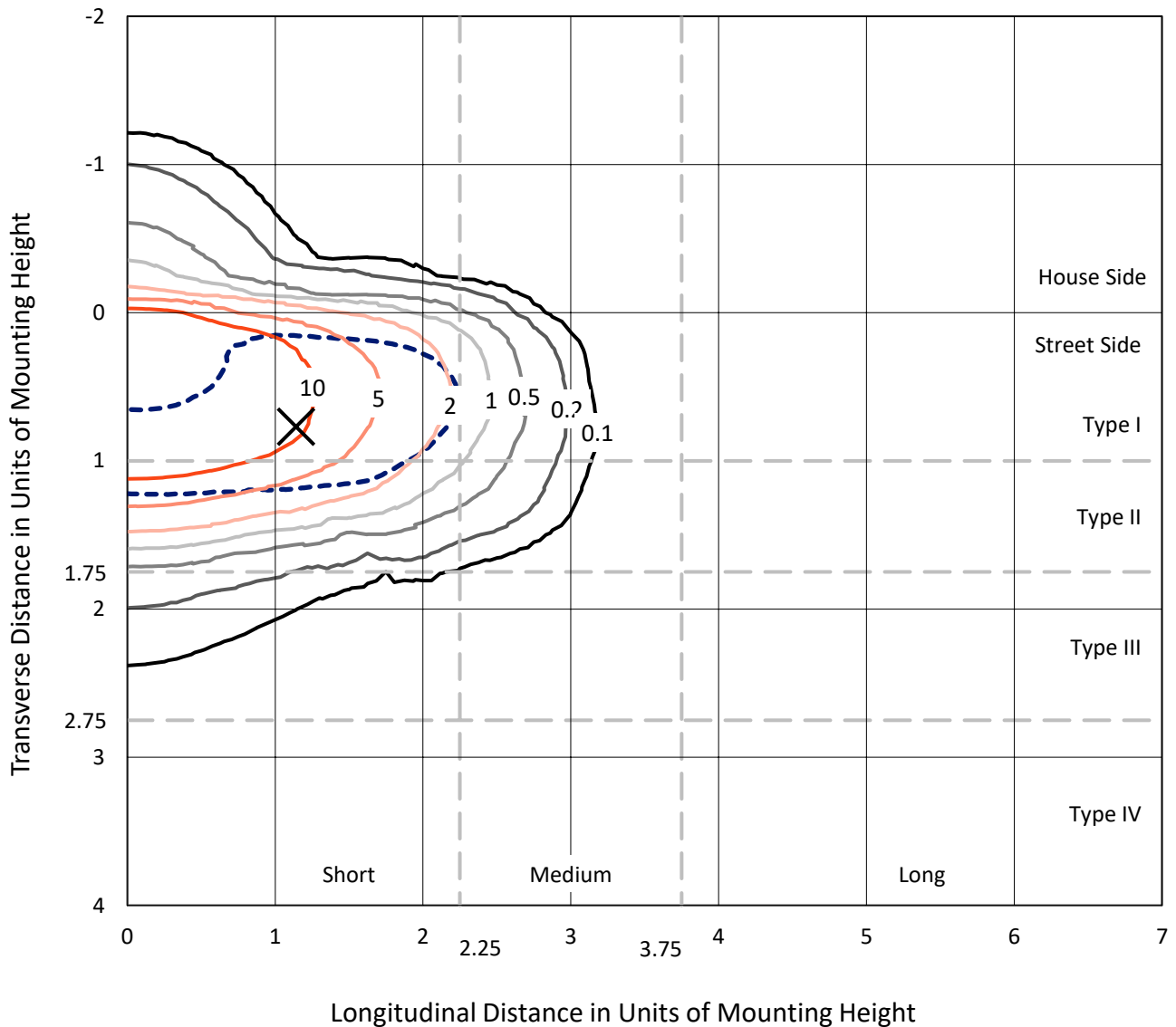
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

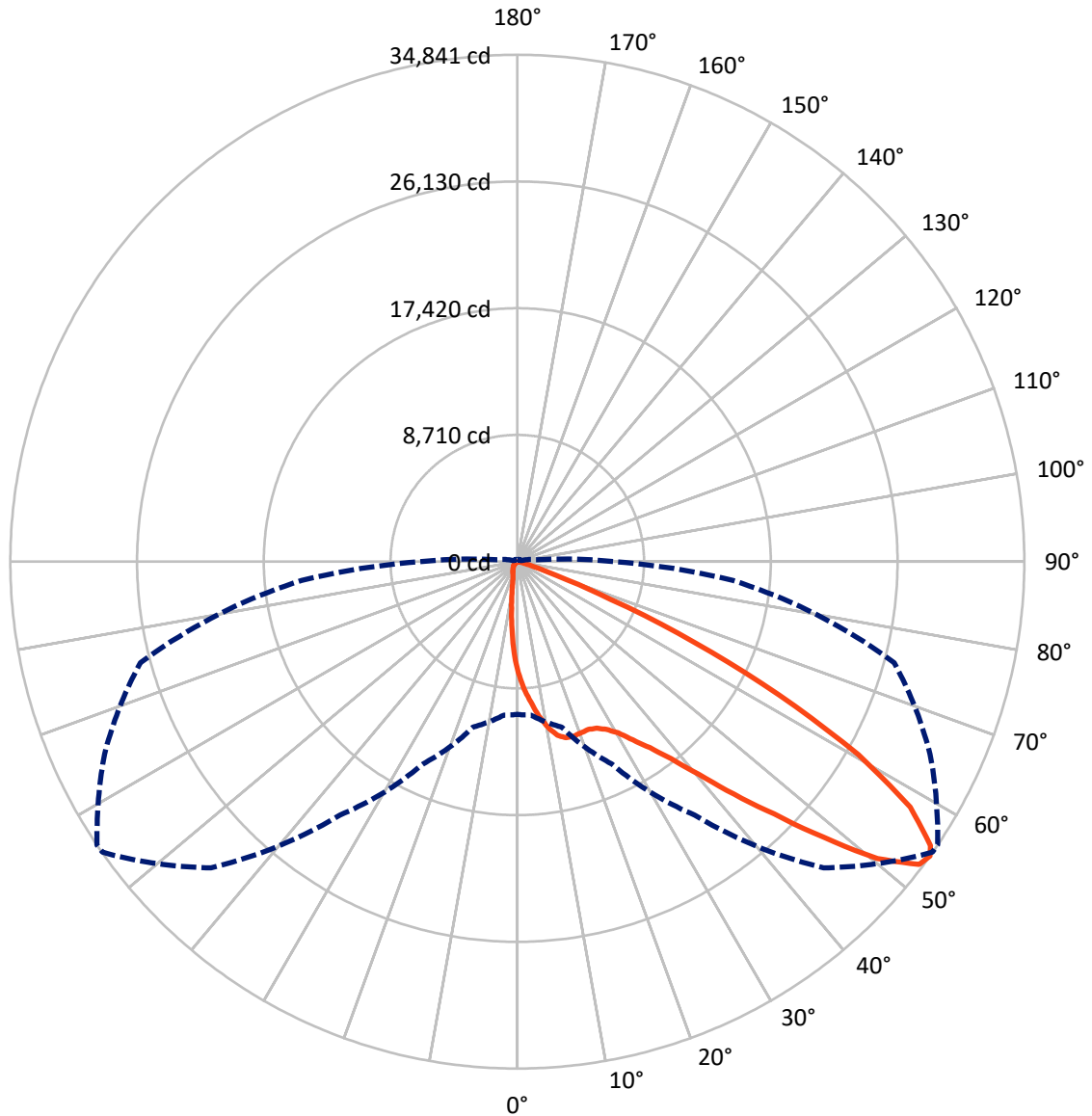
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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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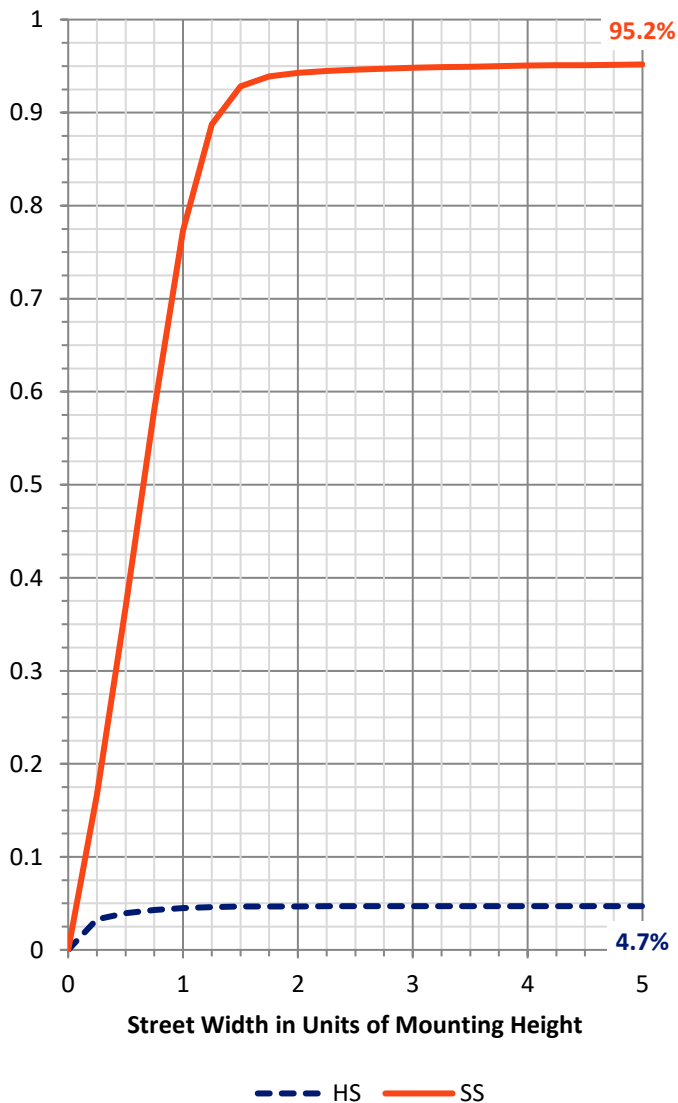
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1616.9	0.0	1616.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	32575.1	0.0	32575.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	34192.0	0.0	34192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.3	2.0
10°-20°	1814.7	5.3
20°-30°	3142.8	9.2
30°-40°	5425.1	15.9
40°-50°	9233.6	27.0
50°-60°	9137.8	26.7
60°-70°	4170.7	12.2
70°-80°	535.6	1.6
80°-90°	60.4	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°	34192.0	100.0
0°-180°	34192.0	100.0

Coefficient of Utilization



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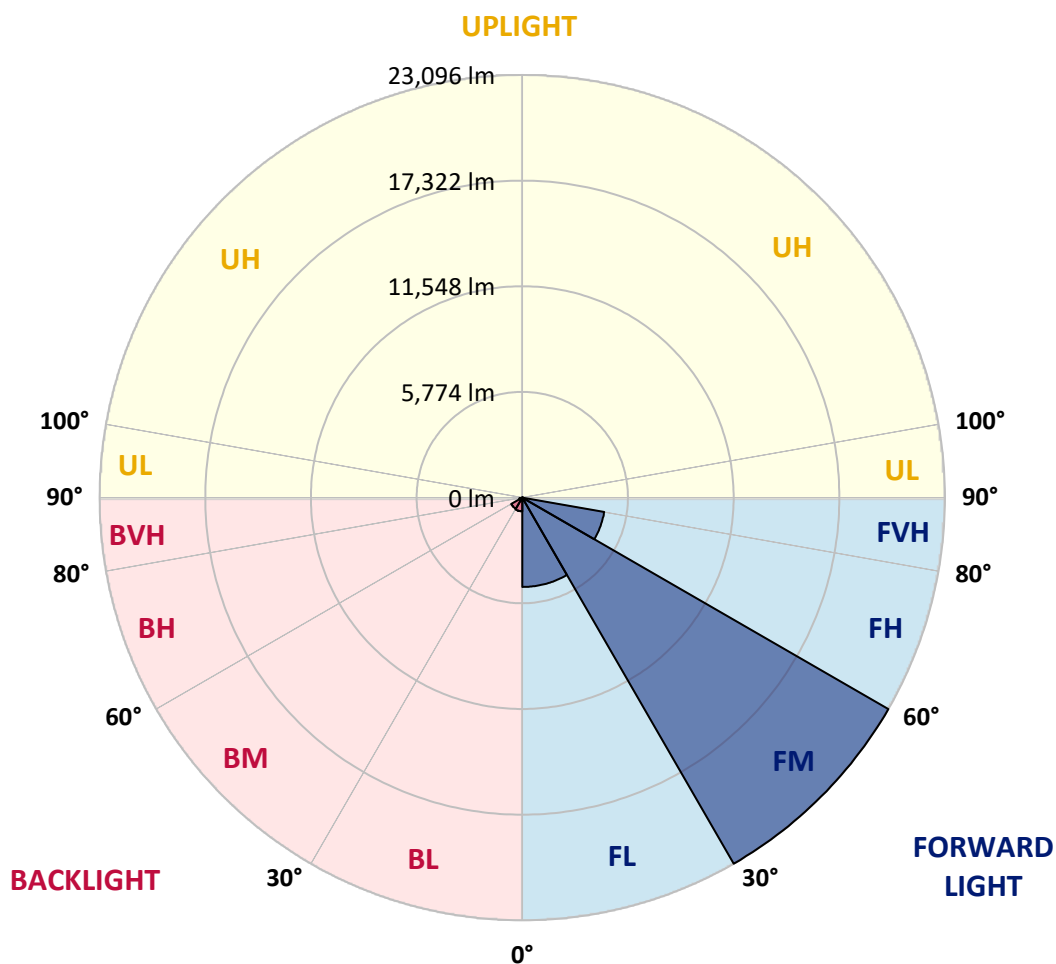
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4881.0	14.3			
FM	(30°-60°)	23095.8	67.5			
FH	(60°-80°)	4544.4	13.3			G2/5000
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	747.8	2.2	B2/1000		
BM	(30°-60°)	700.7	2.0	B1/1000		
BH	(60°-80°)	161.9	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°	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5
2.5°	9654.2	9587.3	9495.0	9423.5	9255.1	9012.9	8756.8	8756.8	8510.0	8166.3	7815.6
5°	11135.2	11091.4	11001.4	10816.9	10627.7	10288.6	9774.2	9684.2	9243.6	8620.7	7965.6
7.5°	11737.3	11758.0	11762.7	11714.2	11624.3	11289.8	10779.9	10717.7	10014.1	9179.0	8161.7
10°	11160.6	11262.1	11361.3	11562.0	11845.7	11926.4	11638.1	11573.5	10881.4	9744.2	8373.9
12.5°	10302.4	10357.8	10413.2	10729.2	11299.0	11951.8	12254.0	12251.7	11665.8	10307.0	8643.8
15°	9903.3	9951.8	9956.4	10097.1	10590.8	11541.2	12517.0	12551.6	12431.7	11001.4	8934.5
17.5°	9986.4	10025.6	9993.3	10027.9	10286.3	11089.1	12487.0	12602.4	13052.2	11668.1	9197.4
20°	10528.5	10604.6	10480.1	10383.2	10461.6	10969.1	12385.5	12547.0	13490.5	12318.6	9437.4
22.5°	11502.0	11543.5	11386.6	11121.4	10982.9	11220.6	12357.8	12517.0	13864.2	12851.5	9575.8
25°	12583.9	12570.1	12397.0	12099.5	11808.8	11728.1	12540.1	12683.1	14173.3	13331.3	9617.3
27.5°	13665.8	13707.3	13416.7	13047.6	12699.2	12489.3	12948.4	13054.5	14521.7	13878.1	9668.0
30°	14923.1	14856.2	14570.1	14148.0	13748.9	13455.9	13605.8	13635.8	15001.5	14602.4	9801.8
32.5°	16558.6	16374.1	16053.4	15315.2	15029.2	14533.2	14570.1	14607.0	15585.1	15319.8	9963.3
35°	18777.8	18768.6	18141.1	17146.9	16450.2	15834.3	15672.8	15702.8	16468.7	16385.6	10320.9
37.5°	21449.2	21486.1	20770.9	19769.8	18487.2	17509.0	17176.9	17181.5	17811.2	17857.4	10865.3
40°	23624.5	23721.4	23294.6	22618.7	21352.3	19822.8	19264.6	19213.8	19698.3	19640.6	11642.7
42.5°	24561.1	24651.1	24810.2	25045.5	24348.9	23087.0	21769.8	21839.0	21986.7	21583.0	12514.7
45°	24102.0	24245.1	24870.2	26323.5	26978.7	26554.2	24983.3	24741.0	24115.9	23693.7	13391.3
47.5°	22189.7	22538.0	23583.0	26002.9	28295.9	29730.8	28609.6	28289.0	26247.4	25234.7	13949.6
50°	19045.4	19066.2	20521.8	23615.3	27613.1	31735.4	32312.1	32072.2	28233.6	26099.8	14231.0
52.5°	13806.5	14261.0	15594.4	19176.9	24655.7	31430.9	34672.1	34572.9	30282.1	26542.7	14637.0
54°	10496.2	10583.9	11769.6	15324.4	21257.7	29758.5	34817.4	34840.5	31299.4	26810.3	14876.9
55°	8604.6	8394.7	9640.4	13054.5	18939.3	28279.8	34342.2	34452.9	31756.2	26948.7	15054.5
57.5°	4078.5	4080.8	5033.6	6886.0	11861.9	21959.0	31437.8	31830.0	31806.9	27186.3	15601.3
60°	2064.6	2078.5	2288.4	3178.8	5859.4	14597.8	25993.7	26927.9	29359.4	27220.9	15781.2
62.5°	1444.1	1427.9	1393.3	1529.4	2466.0	7418.9	19352.2	20164.2	24944.0	25903.7	15209.1
65°	1236.5	1201.9	1105.0	1084.2	1245.7	2955.1	12053.3	13377.5	19045.4	22429.6	13580.5
67.5°	1056.5	1042.7	955.0	902.0	881.2	1287.2	6219.3	6916.0	13017.6	16122.6	10286.3
70°	897.4	890.4	837.4	770.5	712.8	770.5	2306.9	2858.2	7255.1	8680.7	4853.6
72.5°	729.0	735.9	745.1	659.8	599.8	546.7	985.0	1146.5	3035.8	3102.7	1697.8
75°	639.0	632.1	632.1	574.4	500.6	406.0	542.1	583.6	929.7	862.8	394.5
77.5°	449.8	433.7	507.5	472.9	417.5	288.4	309.1	327.6	385.2	329.9	184.5
80°	311.4	311.4	325.3	424.5	376.0	209.9	189.2	203.0	228.4	196.1	106.1
82.5°	175.3	179.9	212.2	226.1	219.2	140.7	124.6	126.9	152.3	133.8	66.9
85°	20.8	34.6	122.3	120.0	90.0	62.3	69.2	71.5	94.6	83.0	39.2
87.5°	2.3	4.6	25.4	32.3	23.1	25.4	25.4	25.4	32.3	36.9	27.7
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°	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5	7596.5
2.5°	7626.5	7451.1	7033.6	6549.2	6240.0	5737.2	5312.7	5005.9	4929.8	4782.1	4825.9
5°	7617.2	7252.8	6401.5	5501.9	4542.2	3827.1	3294.2	2874.3	2689.8	2567.5	2482.2
7.5°	7621.9	7052.1	5686.4	4253.8	3107.3	2406.1	1912.4	1656.3	1485.6	1414.1	1423.3
10°	7635.7	6826.0	4855.9	3151.2	2096.9	1554.8	1252.6	1130.4	1072.7	1063.5	1061.2
12.5°	7668.0	6579.2	4062.4	2339.2	1467.2	1130.4	1015.0	973.5	955.0	955.0	948.1
15°	7702.6	6306.9	3402.6	1739.4	1130.4	971.2	918.1	897.4	885.8	885.8	883.5
17.5°	7702.6	5993.2	2786.7	1349.5	973.5	892.8	851.2	823.5	814.3	814.3	812.0
20°	7654.2	5628.7	2240.0	1086.5	883.5	818.9	777.4	747.4	735.9	731.3	729.0
22.5°	7485.8	5142.0	1783.2	934.3	809.7	754.3	701.3	666.7	657.5	652.8	655.1
25°	7185.9	4593.0	1411.8	821.2	742.8	675.9	629.8	604.4	595.2	595.2	597.5
27.5°	6876.7	4018.5	1118.8	735.9	662.1	602.1	565.2	549.0	546.7	553.6	556.0
30°	6590.7	3441.8	906.6	666.7	590.6	539.8	514.4	509.8	509.8	512.1	514.4
32.5°	6272.3	2936.6	759.0	606.7	532.9	489.1	475.2	475.2	479.8	479.8	484.4
35°	6071.6	2502.9	666.7	549.0	489.1	452.1	442.9	445.2	452.1	461.4	466.0
37.5°	5963.2	2156.9	606.7	502.9	447.5	422.2	412.9	417.5	433.7	449.8	452.1
40°	5972.5	1896.2	558.3	463.7	415.2	387.6	380.6	394.5	410.6	426.8	429.1
42.5°	6074.0	1702.5	512.1	417.5	387.6	348.3	346.0	359.9	366.8	382.9	385.2
45°	6193.9	1561.7	463.7	369.1	336.8	302.2	304.5	316.0	325.3	350.6	355.3
47.5°	6230.8	1464.9	408.3	313.7	276.8	265.3	267.6	274.5	293.0	316.0	318.3
50°	6272.3	1404.9	355.3	265.3	235.3	233.0	235.3	239.9	251.4	260.7	258.4
52.5°	6450.0	1402.6	311.4	230.7	200.7	205.3	207.6	205.3	196.1	182.2	177.6
54°	6616.1	1409.5	290.7	214.5	184.5	191.5	189.2	177.6	154.6	140.7	133.8
55°	6749.9	1416.4	279.1	203.0	175.3	177.6	179.9	156.9	126.9	113.0	108.4
57.5°	7012.8	1400.3	251.4	177.6	154.6	145.3	143.0	103.8	69.2	60.0	55.4
60°	6881.4	1264.2	228.4	152.3	131.5	117.6	96.9	57.7	34.6	25.4	25.4
62.5°	6364.6	1072.7	203.0	124.6	108.4	90.0	50.8	32.3	16.1	9.2	6.9
65°	5693.3	902.0	182.2	99.2	85.4	57.7	27.7	20.8	6.9	0.0	0.0
67.5°	4233.1	669.0	154.6	78.4	64.6	36.9	18.5	11.5	2.3	0.0	0.0
70°	1960.8	408.3	131.5	60.0	46.1	27.7	13.8	6.9	0.0	0.0	0.0
72.5°	562.9	256.1	108.4	43.8	32.3	23.1	11.5	4.6	2.3	0.0	0.0
75°	196.1	205.3	80.7	32.3	25.4	16.1	9.2	4.6	2.3	0.0	0.0
77.5°	117.6	166.1	50.8	27.7	20.8	13.8	9.2	4.6	2.3	2.3	0.0
80°	66.9	110.7	32.3	23.1	18.5	11.5	6.9	4.6	2.3	2.3	0.0
82.5°	36.9	53.1	25.4	20.8	16.1	11.5	6.9	4.6	2.3	2.3	2.3
85°	30.0	27.7	20.8	18.5	13.8	9.2	6.9	2.3	0.0	0.0	0.0
87.5°	23.1	18.5	18.5	18.5	13.8	9.2	6.9	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)