

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: P647484

Luminaire Tested: **GALN-SA6D-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647484
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-SA6D-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 29428.3 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

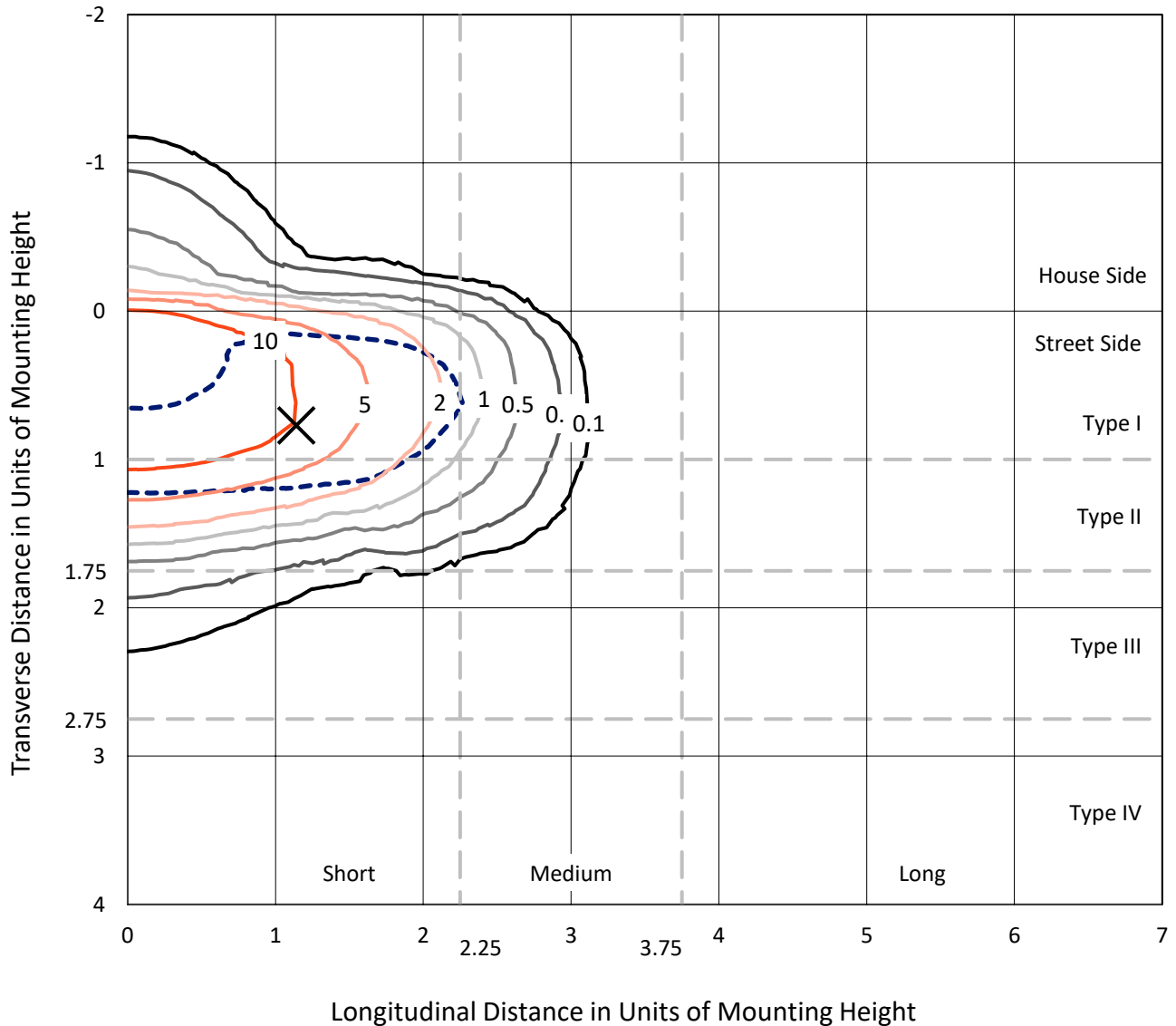
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

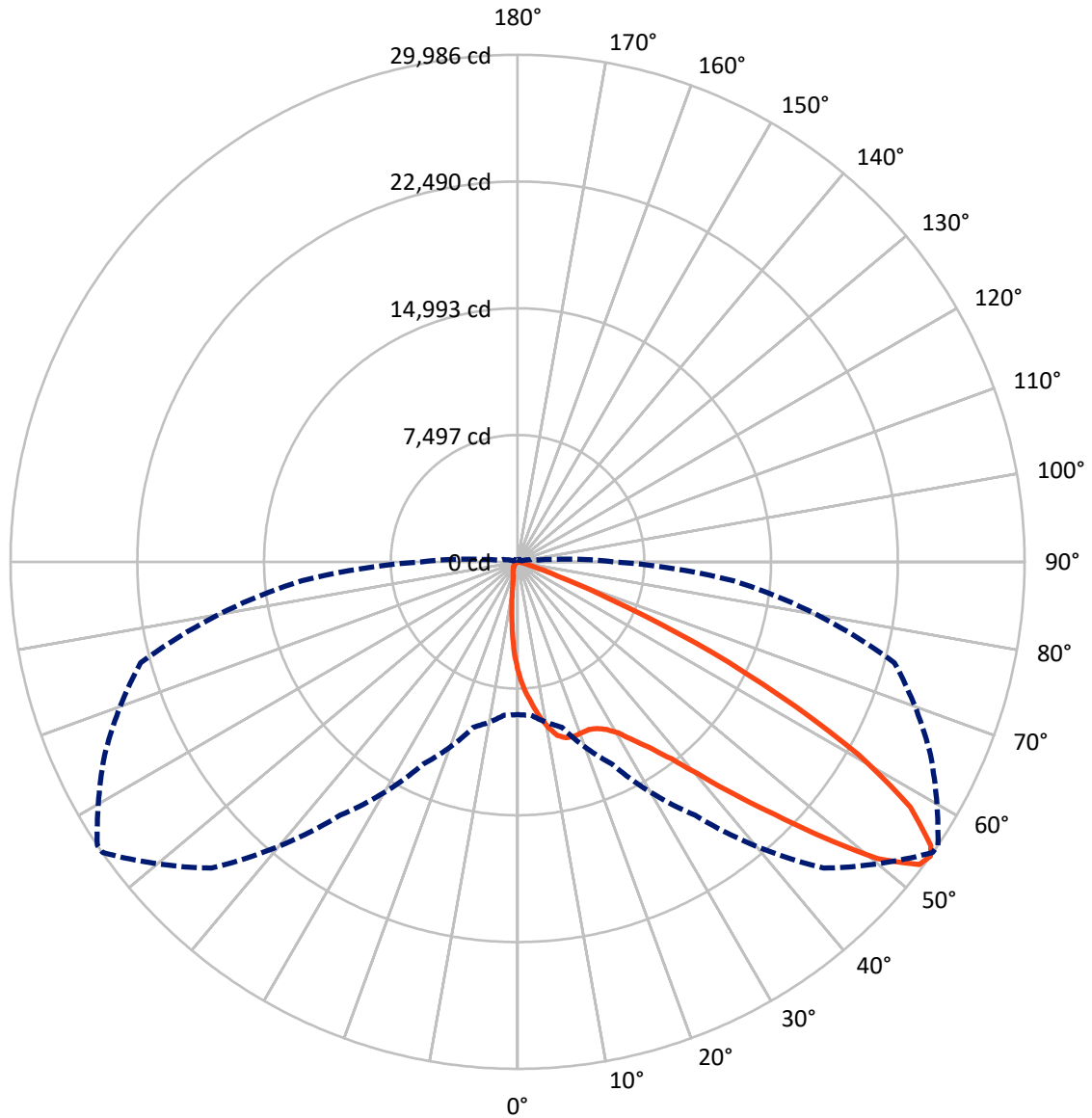
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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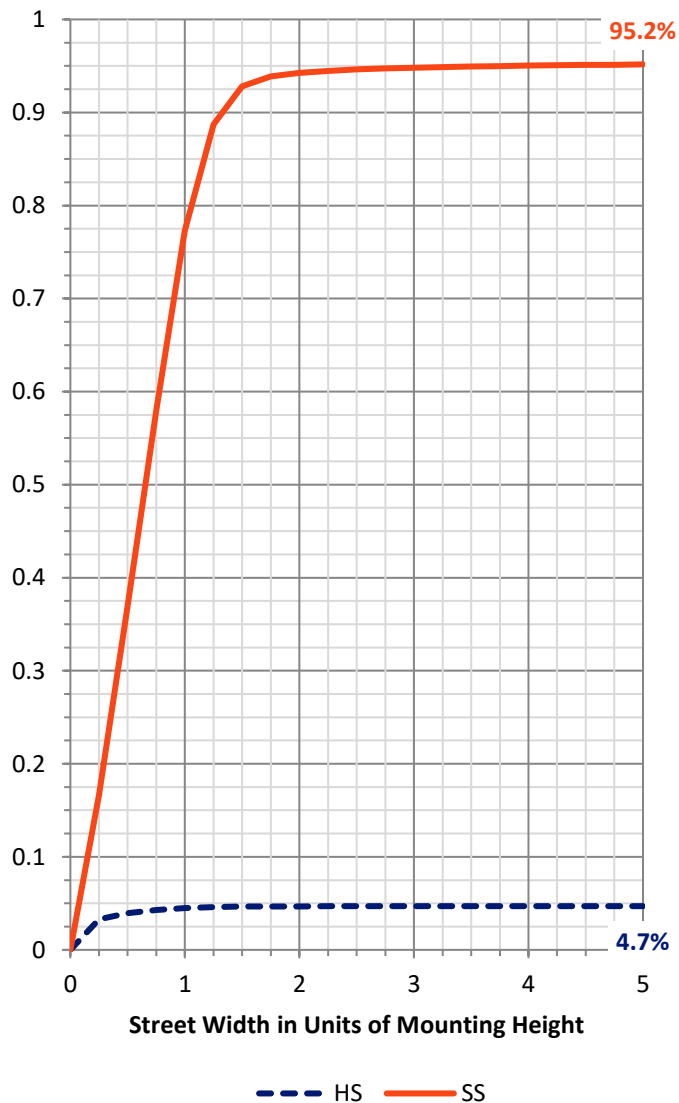
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.6	0.0	1391.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	28036.7	0.0	28036.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	29428.3	0.0	29428.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.7	2.0
10°-20°	1561.9	5.3
20°-30°	2705.0	9.2
30°-40°	4669.2	15.9
40°-50°	7947.2	27.0
50°-60°	7864.7	26.7
60°-70°	3589.6	12.2
70°-80°	461.0	1.6
80°-90°	52.0	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°	29428.3	100.0
0°-180°	29428.3	100.0

Coefficient of Utilization

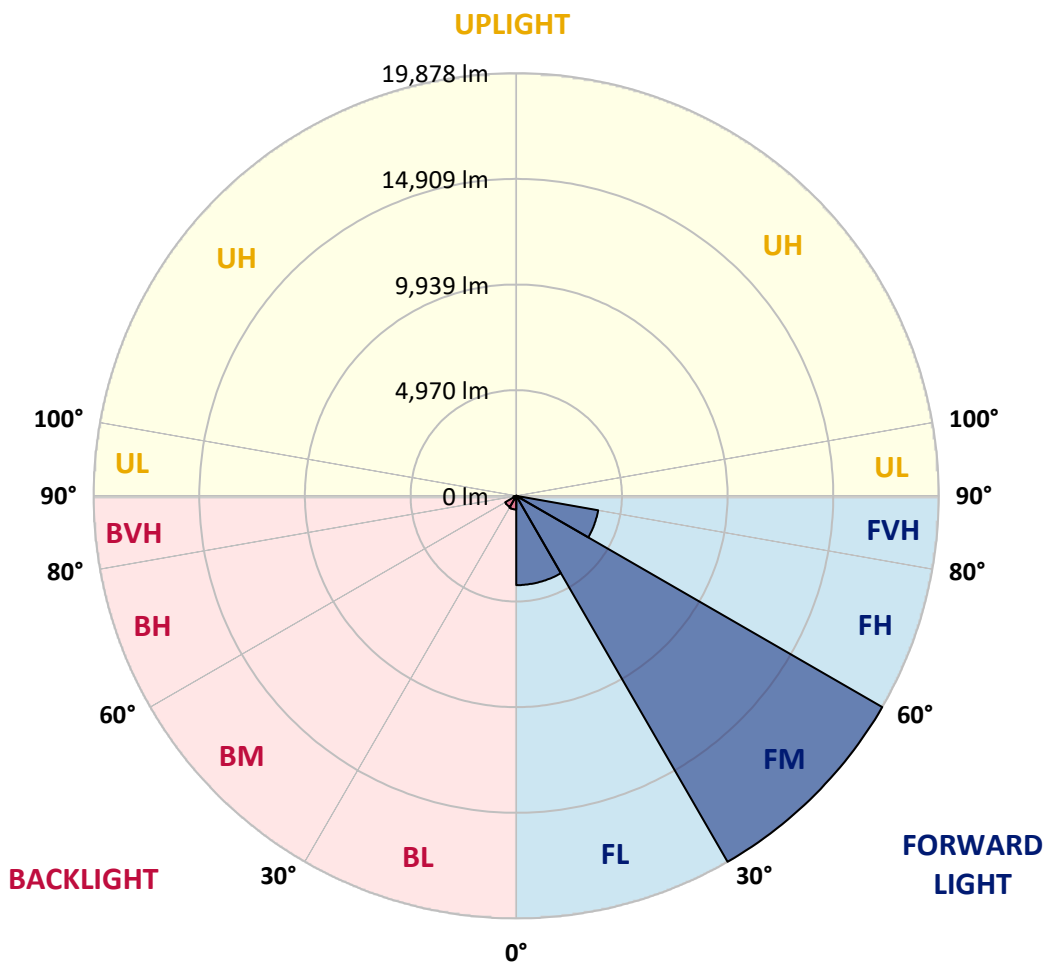


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4201.0	14.3			
FM (30°-60°)	19878.0	67.5			
FH (60°-80°)	3911.3	13.3			G2/5000
FVH (80°-90°)	46.4	0.2			G1/100
BL (0°-30°)	643.6	2.2	B2/1000		
BM (30°-60°)	603.1	2.0	B1/1000		
BH (60°-80°)	139.3	0.5	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1
2.5°	8309.1	8251.6	8172.2	8110.6	7965.7	7757.2	7536.8	7536.8	7324.3	7028.5	6726.8
5°	9583.8	9546.1	9468.7	9309.8	9147.0	8855.2	8412.4	8335.0	7955.7	7419.6	6855.8
7.5°	10102.0	10119.9	10123.9	10082.1	10004.7	9716.9	9278.1	9224.4	8618.9	7900.2	7024.5
10°	9605.7	9693.0	9778.4	9951.1	10195.4	10264.8	10016.6	9961.0	9365.4	8386.6	7207.2
12.5°	8867.1	8914.7	8962.4	9234.4	9724.8	10286.7	10546.8	10544.7	10040.5	8871.0	7439.5
15°	8523.6	8565.2	8569.2	8690.4	9115.2	9933.2	10773.1	10802.9	10699.6	9468.7	7689.7
17.5°	8595.1	8628.8	8601.0	8630.8	8853.1	9544.1	10747.3	10846.6	11233.7	10042.4	7916.1
20°	9061.7	9127.1	9019.9	8936.5	9004.0	9440.9	10659.9	10798.9	11611.0	10602.4	8122.5
22.5°	9899.5	9935.3	9800.3	9571.9	9452.8	9657.3	10636.1	10773.1	11932.6	11061.0	8241.6
25°	10830.7	10818.8	10669.9	10413.7	10163.6	10094.0	10793.0	10916.0	12198.7	11474.0	8277.4
27.5°	11761.8	11797.6	11547.4	11229.8	10930.0	10749.3	11144.4	11235.7	12498.5	11944.5	8321.0
30°	12843.9	12786.4	12540.1	12176.8	11833.3	11581.2	11710.2	11736.1	12911.4	12567.9	8436.2
32.5°	14251.6	14092.8	13816.8	13181.5	12935.2	12508.4	12540.1	12571.9	13413.7	13185.4	8575.2
35°	16161.7	16153.7	15613.6	14757.9	14158.3	13628.2	13489.2	13515.0	14174.2	14102.7	8883.0
37.5°	18460.8	18492.6	17877.1	17015.4	15911.5	15069.6	14783.7	14787.7	15329.7	15369.4	9351.5
40°	20333.1	20416.5	20049.2	19467.4	18377.4	17061.0	16580.6	16536.9	16953.8	16904.2	10020.6
42.5°	21139.2	21216.6	21353.6	21556.1	20956.5	19870.5	18736.8	18796.3	18923.4	18576.0	10771.1
45°	20744.1	20867.2	21405.3	22656.1	23219.9	22854.6	21502.5	21294.1	20756.0	20392.7	11525.6
47.5°	19098.2	19398.0	20297.3	22380.1	24353.6	25588.6	24623.6	24347.7	22590.6	21718.9	12006.1
50°	16391.9	16409.8	17662.7	20325.1	23765.9	27313.9	27810.4	27603.8	24300.0	22463.5	12248.3
52.5°	11883.0	12274.1	13421.7	16505.1	21220.6	27051.9	29841.5	29756.0	26063.1	22844.7	12597.8
54°	9033.9	9109.3	10129.8	13189.4	18296.0	25612.4	29966.5	29986.4	26938.7	23075.0	12804.2
55°	7405.8	7225.1	8297.2	11235.7	16300.7	24339.7	29557.5	29652.8	27331.8	23194.1	12957.1
57.5°	3510.3	3512.3	4332.3	5926.6	10209.2	18899.6	27057.8	27395.4	27375.5	23398.6	13427.7
60°	1777.0	1788.9	1969.6	2736.0	5043.1	12564.0	22372.2	23176.3	25268.9	23428.4	13582.5
62.5°	1242.9	1229.0	1199.2	1316.4	2122.5	6385.2	16656.0	17354.9	21468.8	22294.8	13090.1
65°	1064.2	1034.4	951.0	933.2	1072.2	2543.3	10374.0	11513.7	16391.9	19304.6	11688.4
67.5°	909.4	897.4	822.0	776.3	758.4	1107.9	5352.8	5952.4	11203.9	13876.4	8853.1
70°	772.4	766.4	720.8	663.1	613.5	663.1	1985.5	2460.0	6244.3	7471.3	4177.4
72.5°	627.4	633.4	641.3	567.8	516.2	470.6	847.8	986.7	2612.9	2670.4	1461.3
75°	550.0	544.0	544.0	494.4	430.8	349.5	466.6	502.3	800.1	742.6	339.5
77.5°	387.2	373.3	436.8	407.0	359.4	248.2	266.1	282.0	331.6	283.9	158.9
80°	268.0	268.0	279.9	365.3	323.6	180.6	162.8	174.7	196.5	168.7	91.3
82.5°	150.9	154.9	182.7	194.6	188.6	121.1	107.2	109.2	131.1	115.2	57.6
85°	17.9	29.8	105.2	103.3	77.4	53.6	59.6	61.5	81.4	71.5	33.7
87.5°	2.0	4.0	21.8	27.8	19.9	21.8	21.8	21.8	27.8	31.8	23.8
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°	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1	6538.1
2.5°	6563.9	6413.0	6053.7	5636.7	5370.7	4937.8	4572.5	4308.5	4242.9	4115.8	4153.6
5°	6556.0	6242.3	5509.7	4735.3	3909.4	3293.8	2835.2	2473.9	2315.0	2209.8	2136.3
7.5°	6560.0	6069.6	4894.1	3661.2	2674.4	2070.8	1645.9	1425.5	1278.6	1217.1	1225.0
10°	6571.9	5875.0	4179.4	2712.2	1804.8	1338.2	1078.1	972.9	923.2	915.3	913.3
12.5°	6599.7	5662.5	3496.4	2013.2	1262.7	972.9	873.6	837.9	822.0	822.0	816.0
15°	6629.4	5428.2	2928.6	1497.0	972.9	835.9	790.2	772.4	762.4	762.4	760.4
17.5°	6629.4	5158.2	2398.4	1161.5	837.9	768.4	732.7	708.8	700.9	700.9	698.9
20°	6587.8	4844.5	1927.9	935.1	760.4	704.9	669.1	643.3	633.4	629.4	627.4
22.5°	6442.8	4425.6	1534.8	804.1	696.9	649.3	603.6	573.8	565.9	561.9	563.8
25°	6184.7	3953.1	1215.1	706.8	639.3	581.8	542.0	520.2	512.2	512.2	514.2
27.5°	5918.6	3458.7	962.9	633.4	569.8	518.2	486.4	472.5	470.6	476.5	478.5
30°	5672.4	2962.3	780.3	573.8	508.2	464.6	442.8	438.8	438.8	440.8	442.8
32.5°	5398.5	2527.5	653.2	522.2	458.6	420.9	409.0	409.0	413.0	413.0	416.9
35°	5225.7	2154.2	573.8	472.5	420.9	389.2	381.2	383.2	389.2	397.1	401.1
37.5°	5132.4	1856.4	522.2	432.8	385.2	363.3	355.4	359.4	373.3	387.2	389.2
40°	5140.3	1632.1	480.4	399.1	357.4	333.6	327.6	339.5	353.4	367.3	369.3
42.5°	5227.7	1465.3	440.8	359.4	333.6	299.8	297.9	309.8	315.7	329.6	331.6
45°	5331.0	1344.2	399.1	317.7	289.9	260.1	262.1	272.0	279.9	301.8	305.8
47.5°	5362.7	1260.8	351.4	270.1	238.3	228.3	230.3	236.2	252.1	272.0	274.0
50°	5398.5	1209.1	305.8	228.3	202.5	200.5	202.5	206.5	216.4	224.3	222.4
52.5°	5551.3	1207.2	268.0	198.6	172.7	176.7	178.7	176.7	168.7	156.8	152.8
54°	5694.3	1213.1	250.2	184.6	158.9	164.8	162.8	152.8	133.0	121.1	115.2
55°	5809.5	1219.1	240.2	174.7	150.9	152.8	154.9	135.0	109.2	97.2	93.3
57.5°	6035.8	1205.2	216.4	152.8	133.0	125.0	123.1	89.3	59.6	51.6	47.7
60°	5922.6	1088.1	196.5	131.1	113.1	101.2	83.4	49.6	29.8	21.8	21.8
62.5°	5477.9	923.2	174.7	107.2	93.3	77.4	43.7	27.8	13.9	7.9	6.0
65°	4900.1	776.3	156.8	85.3	73.4	49.6	23.8	17.9	6.0	0.0	0.0
67.5°	3643.3	575.8	133.0	67.5	55.6	31.8	15.9	9.9	2.0	0.0	0.0
70°	1687.7	351.4	113.1	51.6	39.7	23.8	11.9	6.0	0.0	0.0	0.0
72.5°	484.4	220.4	93.3	37.7	27.8	19.9	9.9	4.0	2.0	0.0	0.0
75°	168.7	176.7	69.5	27.8	21.8	13.9	7.9	4.0	2.0	0.0	0.0
77.5°	101.2	143.0	43.7	23.8	17.9	11.9	7.9	4.0	2.0	2.0	0.0
80°	57.6	95.3	27.8	19.9	15.9	9.9	6.0	4.0	2.0	2.0	0.0
82.5°	31.8	45.6	21.8	17.9	13.9	9.9	6.0	4.0	2.0	2.0	2.0
85°	25.8	23.8	17.9	15.9	11.9	7.9	6.0	2.0	0.0	0.0	0.0
87.5°	19.9	15.9	15.9	15.9	11.9	7.9	6.0	2.0	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)