

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: P647552

Luminaire Tested: **GALN-SA7D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34704.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

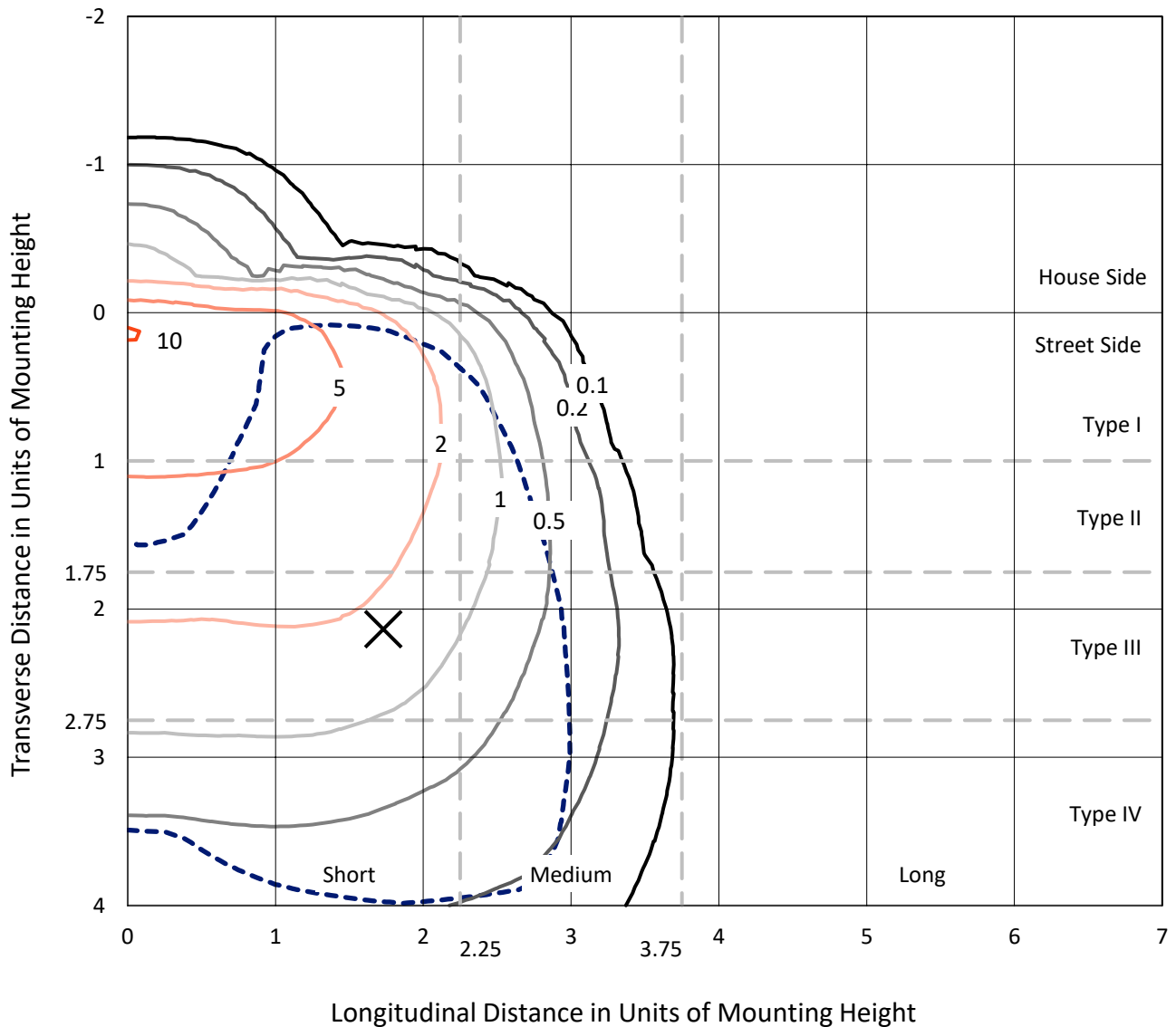
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

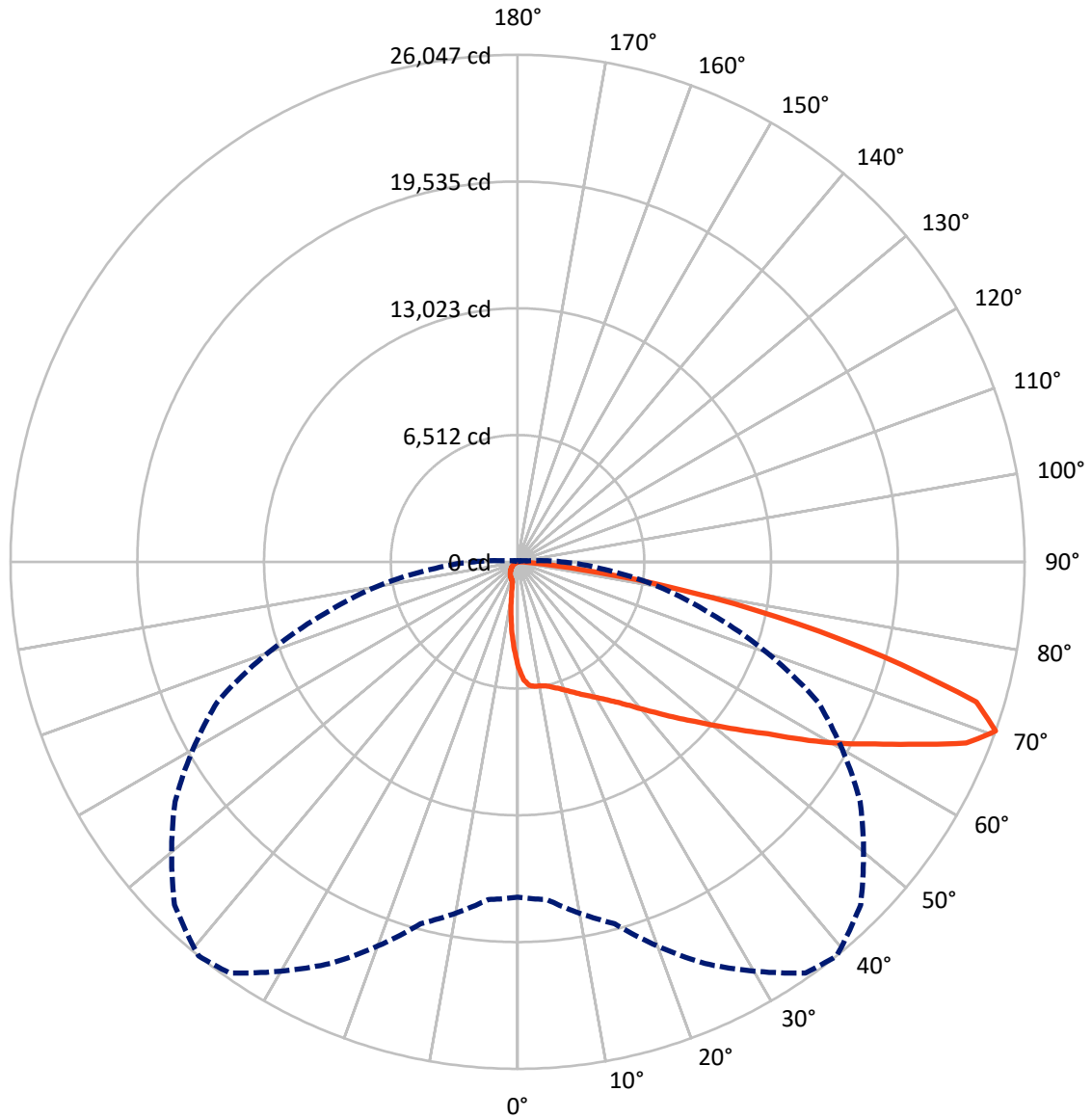
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P647552
CATALOG NUMBER: GALN-SA7D-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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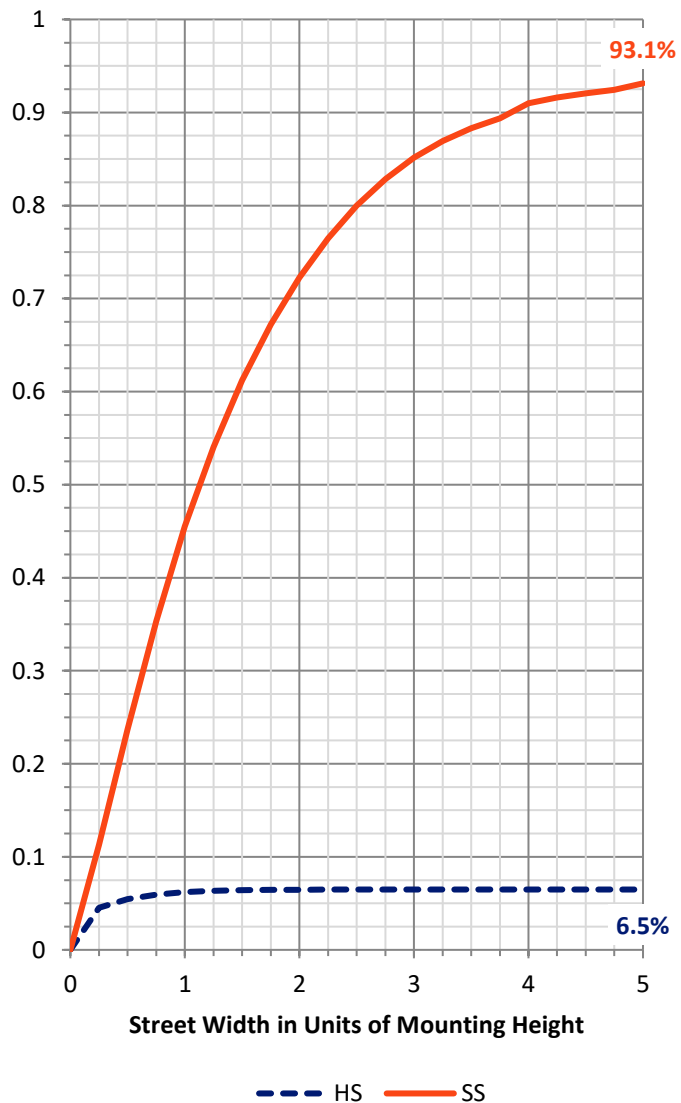
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.9	0.0	2262.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	32441.3	0.0	32441.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	34704.1	0.0	34704.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	1.3
10°-20°	1200.2	3.5
20°-30°	2010.8	5.8
30°-40°	3118.4	9.0
40°-50°	4941.8	14.2
50°-60°	7243.9	20.9
60°-70°	9285.0	26.8
70°-80°	5834.4	16.8
80°-90°	607.8	1.8
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°	34704.1	100.0
0°-180°	34704.1	100.0

Coefficient of Utilization

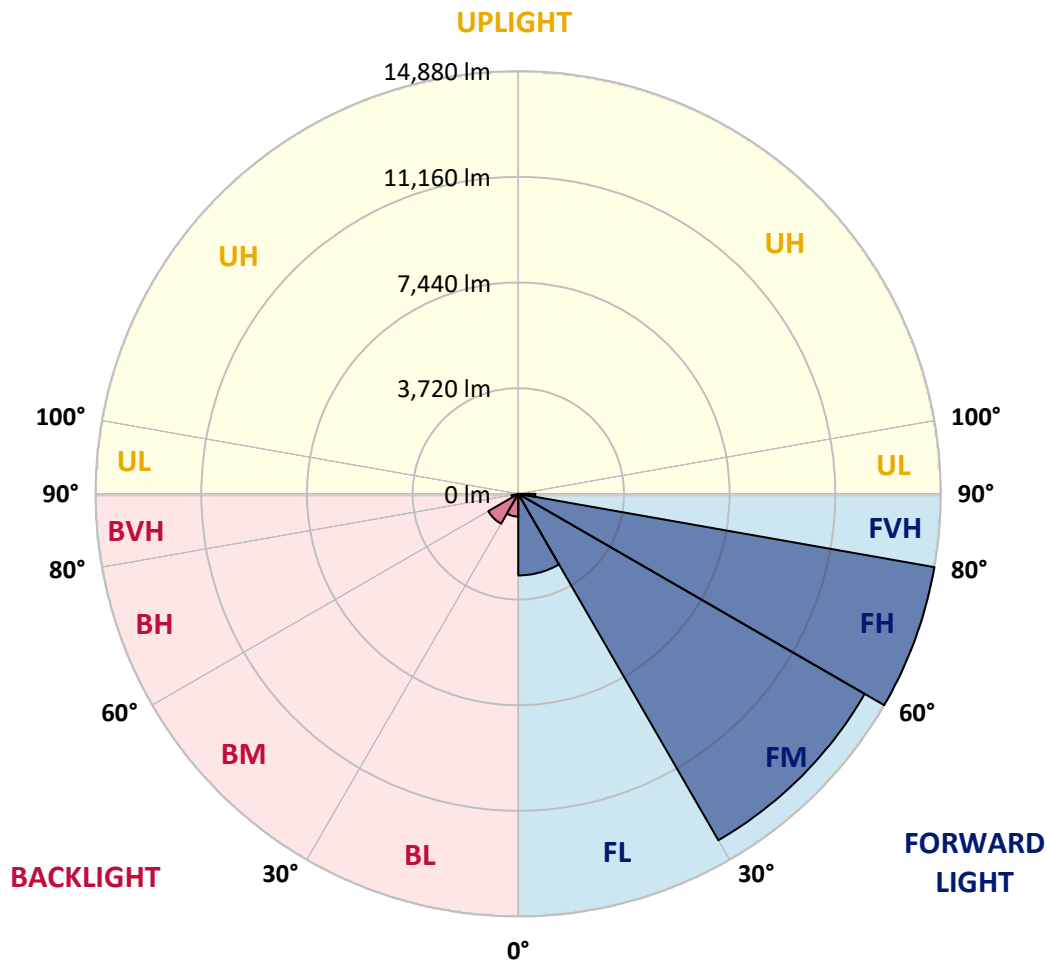


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.6	8.3			
FM (30°-60°)	14086.3	40.6			
FH (60°-80°)	14880.0	42.9			G5
FVH (80°-90°)	603.3	1.7			G4/750
BL (0°-30°)	801.3	2.3	B2/1000		
BM (30°-60°)	1217.8	3.5	B2/2500		
BH (60°-80°)	239.3	0.7	B1/500		G1/500
BVH (80°-90°)	4.5	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1
2.5°	6256.9	6235.9	6207.9	6175.3	6082.0	6065.7	6009.7	5890.7	5748.6	5631.9	5471.0
5°	6553.1	6564.8	6543.8	6485.4	6417.8	6378.2	6308.2	6124.0	5939.8	5704.2	5440.7
7.5°	6620.7	6644.0	6618.4	6562.4	6497.1	6455.1	6399.1	6240.6	6026.0	5757.9	5396.4
10°	6613.7	6641.7	6625.4	6574.1	6520.4	6480.8	6420.1	6294.2	6121.7	5839.5	5410.4
12.5°	6602.0	6639.4	6637.0	6611.4	6567.1	6536.7	6499.4	6387.5	6226.6	5958.4	5487.3
15°	6569.4	6616.0	6658.0	6679.0	6681.3	6681.3	6634.7	6515.7	6361.9	6114.7	5587.6
17.5°	6583.4	6637.0	6741.9	6802.6	6844.6	6839.9	6791.0	6662.7	6492.5	6275.6	5692.6
20°	6669.7	6741.9	6888.9	7010.2	7052.2	7038.2	6972.8	6823.6	6630.1	6413.2	5795.1
22.5°	6881.9	6947.2	7131.4	7273.7	7304.0	7266.7	7173.4	6970.5	6795.6	6562.4	5918.8
25°	7199.1	7276.0	7446.3	7553.5	7553.5	7532.5	7401.9	7164.1	6982.2	6770.0	6079.7
27.5°	7583.8	7649.1	7817.1	7912.7	7856.7	7796.1	7665.5	7378.6	7203.8	7031.2	6273.2
30°	7973.3	8015.3	8192.5	8234.5	8176.2	8099.2	7959.3	7672.5	7518.5	7385.6	6553.1
32.5°	8341.8	8432.8	8579.6	8570.3	8491.0	8453.7	8325.4	8020.0	7933.7	7919.7	6944.9
35°	8710.2	8780.2	8910.8	8943.4	8873.5	8866.5	8773.2	8547.0	8549.3	8640.2	7555.9
37.5°	9027.4	9090.3	9244.3	9316.5	9330.5	9365.5	9328.2	9179.0	9391.2	9640.7	8365.1
40°	9293.3	9381.8	9577.7	9703.7	9848.3	9976.5	9983.6	10016.2	10442.9	10872.0	9421.5
42.5°	9500.8	9624.4	9908.9	10142.1	10473.3	10636.5	10767.1	10946.7	11665.0	12306.3	10666.8
45°	9771.3	9913.6	10268.0	10634.2	11151.9	11420.1	11601.9	12082.4	13101.5	13976.0	11944.8
47.5°	10219.1	10293.7	10655.1	11189.2	11870.2	12252.6	12607.1	13334.7	14643.0	15426.6	13008.2
50°	10795.1	10844.1	11116.9	11858.5	12740.0	13243.7	13889.7	14745.6	16242.8	16629.9	13609.9
52.5°	11431.7	11448.1	11653.3	12595.4	13714.8	14349.2	15072.0	16128.5	17546.4	17488.1	14008.7
55°	12171.0	12147.7	12322.6	13395.3	14869.2	15594.5	16436.3	17544.1	18677.4	18096.8	14237.2
57.5°	13017.5	12954.6	13124.8	14456.5	16347.7	17215.3	18071.1	18766.1	19554.3	18607.4	14346.8
60°	13903.7	13777.8	13980.7	15648.1	18089.7	18913.0	19624.3	19810.8	20477.8	19013.3	14157.9
62.5°	14610.3	14612.7	14990.5	16916.7	19880.8	20601.4	20979.2	21147.1	21273.0	18924.6	13164.4
65°	15713.4	15750.7	16354.7	18677.4	21954.0	22579.0	22837.8	22292.1	21308.0	17823.9	11671.9
67.5°	16851.4	16970.4	18075.8	21102.8	24349.0	24852.7	24519.3	22513.7	20356.5	15312.3	8850.2
70°	17222.2	17418.1	19239.5	22772.5	25785.5	26046.7	24918.0	21480.6	17017.0	10237.7	4454.3
72.5°	15781.1	16098.2	18570.2	22163.8	24869.0	24642.8	22294.4	18015.1	10818.4	3887.5	1359.6
75°	11128.5	11268.5	15433.6	18385.9	20002.0	19360.7	16958.7	11613.6	4449.6	1091.4	466.4
77.5°	5746.2	5678.6	9179.0	12199.0	14265.2	13600.6	11105.3	6012.0	1686.1	454.8	289.2
80°	2971.0	3020.0	3971.5	6392.2	8707.9	8012.9	5921.1	2786.8	897.9	251.9	221.5
82.5°	1665.0	1562.5	2283.1	2791.5	4071.8	3192.6	2271.4	1972.9	391.8	151.6	209.9
85°	303.2	317.2	1252.3	1508.8	1413.2	897.9	732.3	1317.6	114.2	83.9	146.9
87.5°	4.7	4.7	242.5	433.8	275.1	125.9	230.9	188.9	23.3	32.7	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647552

CATALOG NUMBER: GALN-SA7D-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1	5415.1
2.5°	5389.4	5300.8	5135.1	4972.0	4764.4	4594.2	4479.9	4360.9	4239.7	4249.0	4277.0
5°	5296.1	5142.2	4815.7	4470.5	4139.4	3840.9	3547.1	3283.5	3176.2	3078.3	3083.0
7.5°	5202.8	4985.9	4507.9	3966.8	3465.4	2957.1	2588.6	2285.4	2124.5	2003.2	1968.2
10°	5160.8	4874.0	4225.7	3481.8	2770.5	2215.4	1742.0	1494.8	1303.6	1243.0	1259.3
12.5°	5179.5	4818.0	3971.5	3043.4	2196.8	1543.8	1212.6	1086.7	1044.8	1037.8	1033.1
15°	5214.5	4778.4	3722.0	2558.3	1613.8	1147.4	1019.1	995.8	991.1	986.4	988.8
17.5°	5261.1	4743.4	3456.1	2103.5	1238.3	1002.8	965.4	953.8	951.5	951.5	951.5
20°	5307.7	4703.8	3160.0	1697.7	1033.1	946.8	923.5	916.5	914.2	914.2	911.8
22.5°	5361.4	4668.8	2859.1	1333.9	951.5	907.2	886.2	881.5	879.2	876.9	876.9
25°	5438.3	4624.5	2539.6	1091.4	900.1	869.8	848.9	844.2	841.9	832.6	834.9
27.5°	5541.0	4591.8	2210.8	942.2	853.5	823.2	809.2	802.3	797.6	790.6	792.9
30°	5680.9	4563.9	1861.0	860.5	799.9	774.2	760.2	755.6	750.9	743.9	743.9
32.5°	5923.4	4575.5	1492.6	795.2	750.9	720.6	706.6	702.0	697.3	690.3	690.3
35°	6287.3	4643.1	1194.0	739.2	692.6	662.3	648.3	648.3	641.3	632.0	629.7
37.5°	6881.9	4815.7	958.5	685.6	636.7	608.7	592.3	587.6	580.7	566.7	564.4
40°	7583.8	5083.9	806.9	632.0	585.4	557.3	543.4	529.4	510.8	496.7	494.4
42.5°	8465.3	5359.1	699.6	578.3	536.4	510.8	494.4	471.1	443.1	424.5	422.1
45°	9384.2	5610.9	627.3	529.4	489.8	468.8	450.1	412.8	377.8	354.5	352.1
47.5°	10069.8	5657.6	569.0	482.7	450.1	429.1	403.5	356.8	310.1	289.2	282.2
50°	10394.0	5431.4	508.4	436.1	410.4	387.1	354.5	300.8	249.5	223.9	219.2
52.5°	10508.3	5039.5	459.4	394.1	370.8	342.8	303.2	242.5	195.9	170.2	167.9
55°	10461.6	4545.2	415.1	354.5	324.2	291.5	251.9	193.6	144.6	123.6	118.9
57.5°	10216.7	3915.5	370.8	314.8	277.5	244.8	200.5	144.6	98.0	79.3	77.0
60°	9556.7	3057.3	326.5	270.5	235.5	200.5	158.6	102.6	60.6	44.3	44.3
62.5°	8442.1	2269.1	284.5	226.2	198.3	160.9	112.0	65.3	32.7	23.3	21.0
65°	7054.4	1674.4	237.9	191.2	165.6	125.9	79.3	39.6	16.3	7.0	4.7
67.5°	4923.0	1033.1	198.3	156.3	135.2	91.0	48.9	16.3	7.0	0.0	0.0
70°	2236.4	492.0	151.6	118.9	102.6	65.3	25.7	9.3	4.7	0.0	0.0
72.5°	695.0	258.9	107.3	86.3	70.0	42.0	14.0	7.0	4.7	0.0	0.0
75°	321.8	165.6	67.7	46.7	39.6	21.0	9.3	4.7	2.3	0.0	0.0
77.5°	240.2	128.3	39.6	25.7	21.0	14.0	7.0	4.7	2.3	0.0	0.0
80°	209.9	65.3	23.3	16.3	11.7	9.3	4.7	2.3	0.0	0.0	0.0
82.5°	188.9	32.7	14.0	9.3	7.0	4.7	2.3	2.3	0.0	0.0	0.0
85°	102.6	18.6	9.3	7.0	4.7	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.6	9.3	7.0	4.7	4.7	2.3	2.3	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)