

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: P951279

Luminaire Tested: **GALN-SB5C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29918 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.5
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

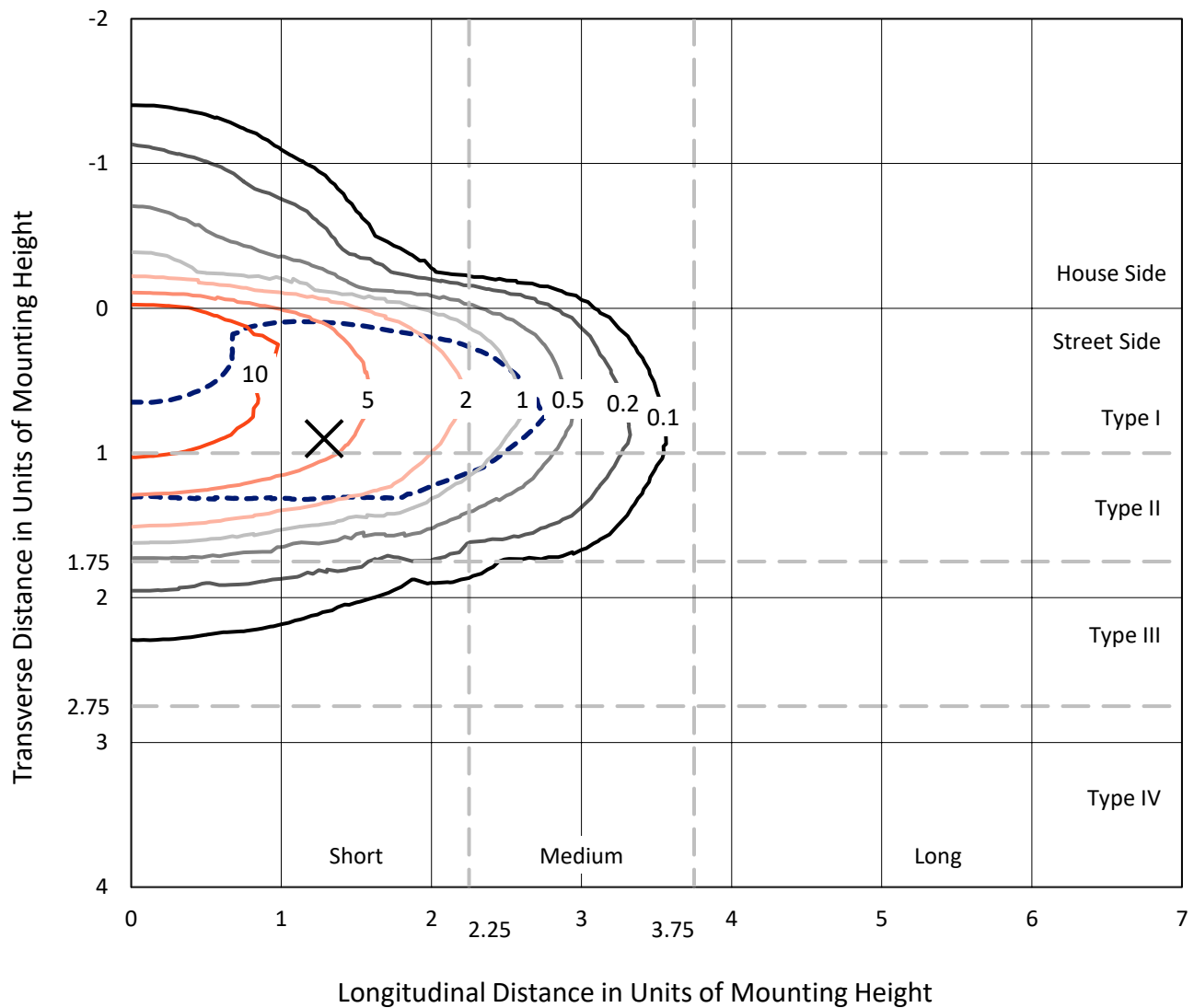


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Iso-Footcandle Lines of Horizontal Illumination

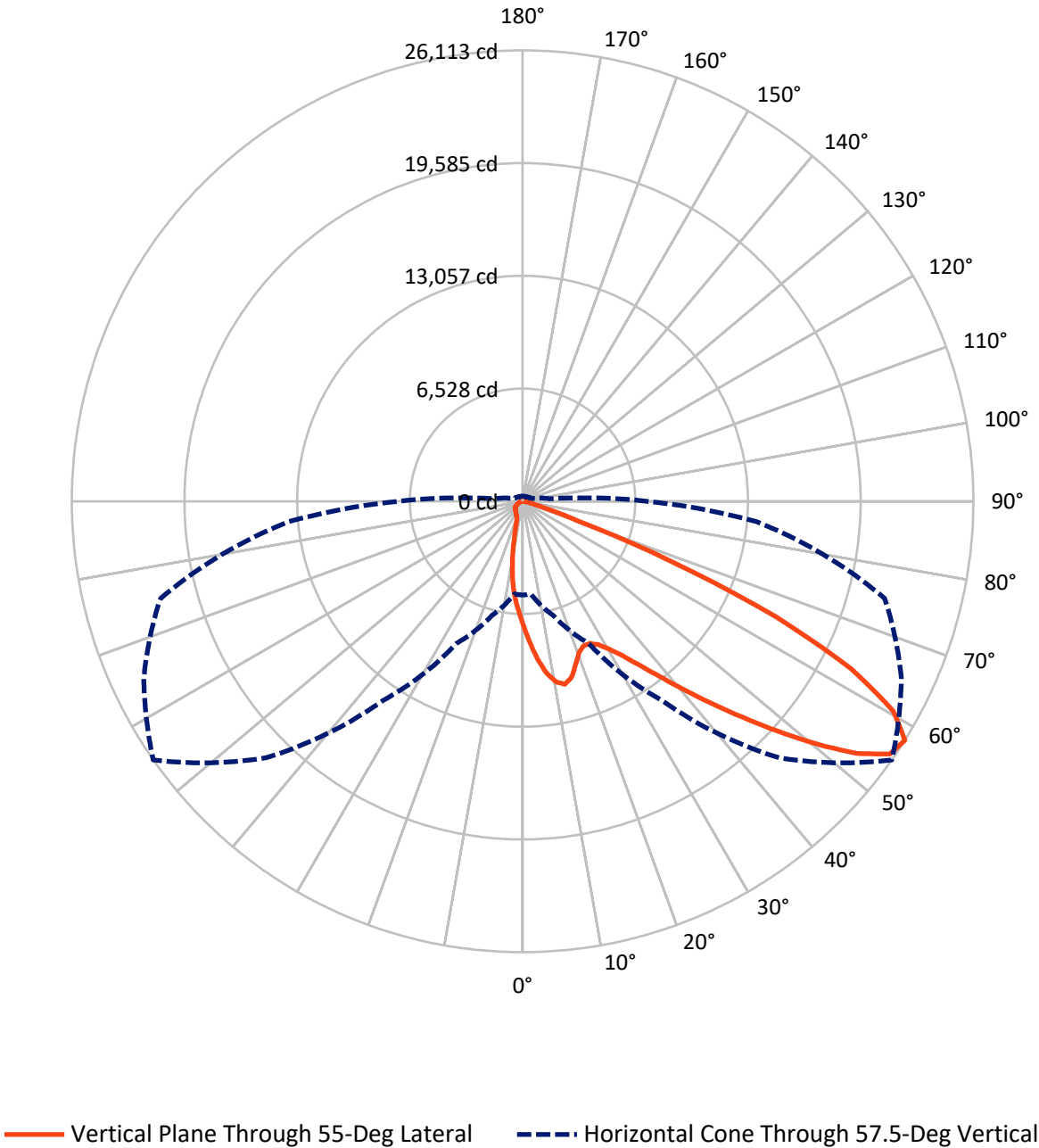
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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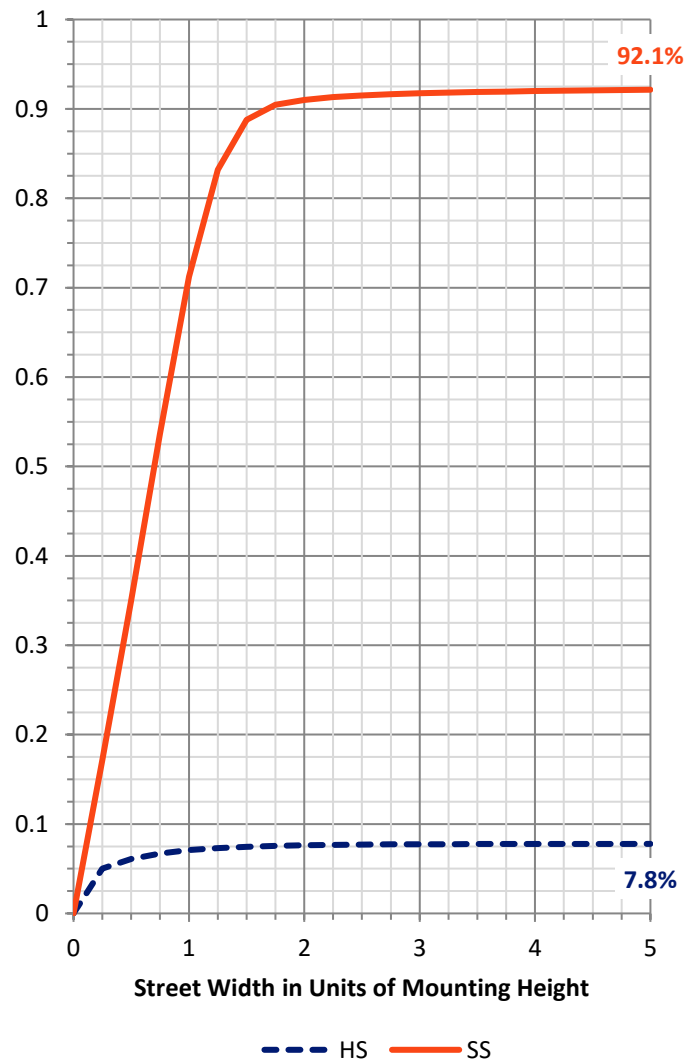
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2336.5	0.0	2336.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27581.5	0.0	27581.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	29918.0	0.0	29918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.8	2.2
10°-20°	1620.3	5.4
20°-30°	2592.5	8.7
30°-40°	4388.0	14.7
40°-50°	7204.1	24.1
50°-60°	7917.8	26.5
60°-70°	4541.7	15.2
70°-80°	928.0	3.1
80°-90°	54.7	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°	29918.0	100.0
0°-180°	29918.0	100.0

Coefficient of Utilization



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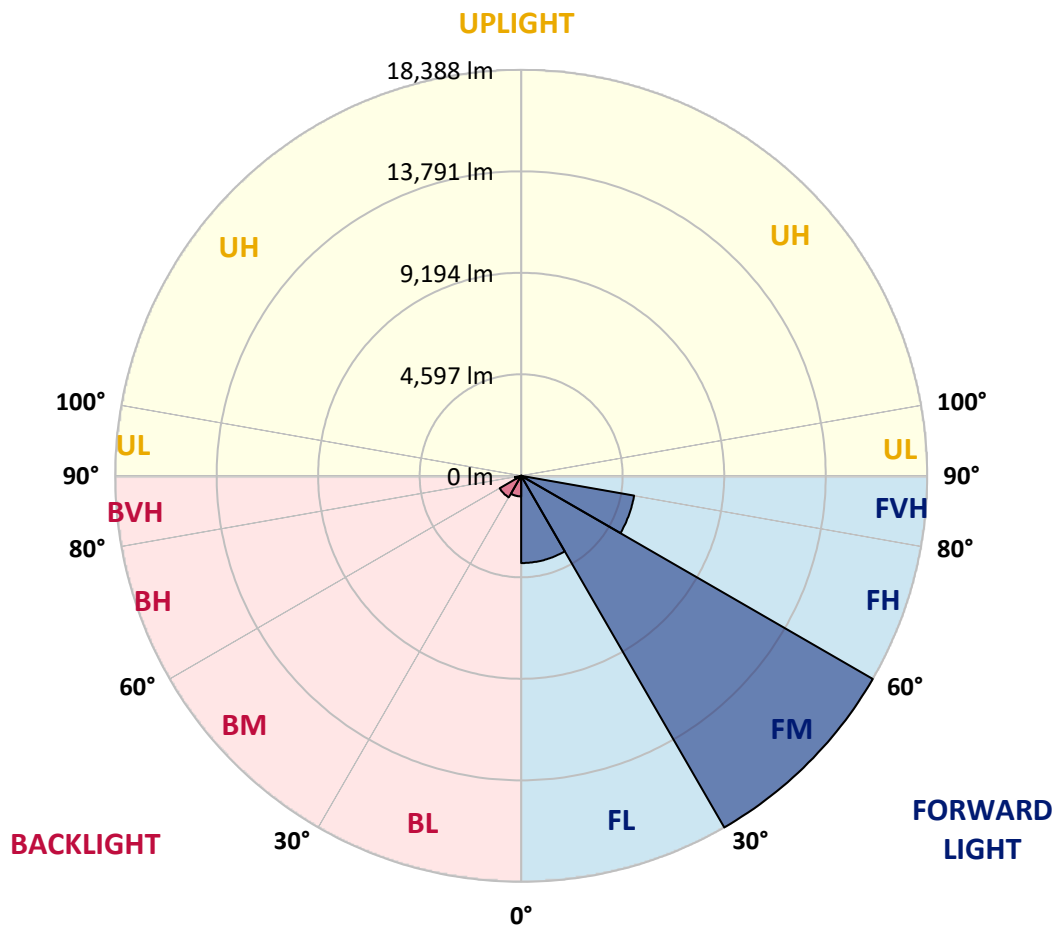
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3950.9	13.2			
FM	(30°-60°)	18387.8	61.5			
FH	(60°-80°)	5191.8	17.4			G3/7500
FVH	(80°-90°)	51.1	0.2			G1/100
BL	(0°-30°)	932.8	3.1	B2/1000		
BM	(30°-60°)	1122.1	3.8	B2/2500		
BH	(60°-80°)	277.9	0.9	B1/500		G1/500
BVH	(80°-90°)	3.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5
2.5°	8945.5	8832.9	8816.3	8794.2	8580.2	8419.7	8187.2	7932.7	7646.7	7355.2	7226.1
5°	10334.6	10246.1	10229.4	10126.1	9882.6	9609.6	9196.4	8674.3	8141.1	7513.9	7244.6
7.5°	10603.9	10587.3	10663.0	10659.3	10626.1	10410.2	10061.6	9439.9	8639.2	7709.4	7292.5
10°	9403.0	9445.4	9670.5	9867.9	10401.0	10710.9	10635.3	10122.4	9152.1	7932.7	7346.0
12.5°	8309.0	8259.2	8419.7	8642.9	9262.8	10185.2	10873.3	10692.5	9738.7	8185.4	7425.3
15°	7622.7	7602.4	7692.8	7796.1	8268.4	9198.2	10596.6	11155.5	10303.2	8484.3	7545.3
17.5°	7403.2	7386.6	7414.3	7440.1	7746.3	8465.8	9938.0	11439.6	10843.8	8825.6	7678.1
20°	7582.2	7560.0	7556.3	7536.0	7663.3	8154.0	9342.1	11459.9	11329.0	9135.5	7792.5
22.5°	8104.2	8078.4	7988.0	7906.8	7917.9	8196.5	9076.4	11257.0	11694.2	9425.1	7864.4
25°	9050.6	9008.2	8820.0	8547.0	8373.6	8491.6	9117.0	10989.5	12042.9	9652.0	7829.4
27.5°	10235.0	10179.6	9938.0	9532.1	9135.5	8991.6	9410.4	10805.0	12332.5	9825.4	7753.7
30°	11395.4	11323.4	11085.4	10770.0	10190.7	9736.9	9939.8	10886.2	12677.5	10006.2	7654.1
32.5°	12648.0	12579.7	12264.3	11873.2	11393.5	10782.9	10664.8	11282.8	13100.0	10259.0	7584.0
35°	14232.7	14125.7	13677.4	13144.2	12635.1	12017.1	11646.3	11967.3	13662.6	10644.5	7622.7
37.5°	16036.9	15893.0	15409.7	14673.6	14009.5	13317.7	12841.7	12908.1	14487.3	11161.1	7742.6
40°	17737.8	17606.8	17160.4	16466.7	15632.9	14793.5	14286.2	14138.6	15625.5	11790.2	7953.0
42.5°	18758.0	18639.9	18451.7	18158.4	17455.6	16599.6	15959.4	15640.3	16972.2	12542.8	8209.4
45°	18815.2	18711.9	18964.6	19305.9	19167.5	18597.5	17817.1	17232.3	18324.5	13249.4	8475.0
47.5°	17900.1	17830.0	18597.5	19789.2	20383.3	20623.1	19903.6	18691.6	19440.6	13756.7	8583.9
50°	15406.0	15380.1	16959.3	19147.2	20846.3	22397.8	22104.5	20049.3	20305.8	14018.7	8480.6
52.5°	13358.2	13264.2	14184.7	17092.1	20173.0	23331.3	24255.5	21381.3	20910.9	14068.5	8238.9
55°	10131.7	10048.7	11203.5	13653.4	18001.6	22999.2	25829.1	22755.7	21344.4	13941.2	7805.4
57.5°	5434.8	5383.1	6842.4	9087.5	14072.2	21006.8	26113.2	24209.4	21709.7	13603.6	7198.4
60°	2116.0	2106.8	2652.8	4409.1	8552.5	17090.3	24679.8	25082.0	21938.4	13188.5	6691.1
62.5°	1280.3	1308.0	1396.5	1979.5	3778.2	10616.9	21375.8	24089.5	22091.5	12808.5	6272.3
65°	1058.9	1060.8	1071.8	1359.6	1809.8	4442.3	16092.2	20824.2	21713.4	12131.4	5678.3
67.5°	907.6	924.2	966.7	1079.2	1276.6	1948.1	9264.6	16131.0	19412.9	10556.0	4752.2
70°	715.8	737.9	791.4	887.4	985.1	1219.4	3424.0	10733.1	14830.4	7956.6	3593.7
72.5°	603.3	601.4	629.1	721.3	782.2	857.8	1317.2	6014.1	8618.9	3798.5	1778.4
75°	466.7	485.2	520.2	603.3	640.1	621.7	713.9	2197.2	3088.2	1151.2	605.1
77.5°	365.3	380.0	411.4	492.6	529.5	440.9	411.4	785.9	992.5	413.2	273.0
80°	164.2	177.1	280.4	363.4	431.7	304.4	223.2	402.2	440.9	188.2	138.4
82.5°	29.5	49.8	164.2	191.9	221.4	197.4	116.2	208.5	215.8	75.6	48.0
85°	1.8	3.7	57.2	70.1	88.6	64.6	35.1	83.0	71.9	25.8	18.4
87.5°	0.0	0.0	0.0	1.8	1.8	9.2	11.1	14.8	11.1	9.2	7.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5	7209.5
2.5°	7093.3	6831.3	6576.7	6368.3	6246.5	6039.9	5903.4	5881.2	5824.1	5873.9
5°	6956.8	6488.2	6014.1	5589.8	5241.1	4791.0	4455.2	4313.2	4189.6	4232.0
7.5°	6892.2	6152.4	5414.5	4689.5	3944.2	3224.7	2689.7	2466.5	2296.8	2320.8
10°	6805.5	5803.8	4647.1	3540.2	2542.1	1831.9	1462.9	1326.4	1250.8	1252.6
12.5°	6739.1	5386.8	3756.0	2400.1	1547.8	1169.6	1055.2	1022.0	999.9	1001.7
15°	6705.9	4896.1	2876.1	1599.4	1106.9	990.7	963.0	948.2	933.5	931.6
17.5°	6650.5	4350.1	2104.9	1167.8	968.5	927.9	904.0	887.4	868.9	865.2
20°	6567.5	3730.2	1538.6	987.0	907.6	876.3	843.1	820.9	798.8	795.1
22.5°	6414.4	3075.3	1182.5	913.2	863.4	828.3	787.7	761.9	739.8	736.1
25°	6130.3	2461.0	996.2	867.1	824.6	782.2	737.9	702.9	682.6	678.9
27.5°	5770.6	1933.4	904.0	824.6	774.8	736.1	686.3	653.1	634.6	630.9
30°	5346.2	1488.8	850.5	776.7	715.8	682.6	638.3	610.6	599.6	599.6
32.5°	4888.7	1189.9	828.3	728.7	664.1	627.2	592.2	581.1	577.4	575.6
35°	4458.9	1033.1	817.2	690.0	618.0	583.0	568.2	570.0	577.4	577.4
37.5°	4077.0	983.3	811.7	662.3	577.4	546.1	555.3	571.9	564.5	564.5
40°	3732.0	988.8	808.0	642.0	544.2	525.8	544.2	531.3	512.9	511.0
42.5°	3468.2	1034.9	800.6	625.4	523.9	511.0	503.6	483.3	481.5	485.2
45°	3276.4	1075.5	798.8	618.0	501.8	477.8	468.6	448.3	485.2	494.4
47.5°	3049.5	1075.5	798.8	592.2	464.9	455.7	440.9	418.8	455.7	464.9
50°	2756.1	1007.3	767.4	562.7	435.4	429.8	404.0	376.3	369.0	374.5
52.5°	2385.3	883.7	688.1	522.1	405.9	394.8	363.4	343.1	337.6	337.6
55°	1962.9	739.8	581.1	463.0	374.5	354.2	332.1	322.8	317.3	313.6
57.5°	1595.8	606.9	466.7	411.4	345.0	319.2	311.8	300.7	291.5	285.9
60°	1309.8	477.8	385.6	365.3	315.5	291.5	289.6	274.9	250.9	247.2
62.5°	1011.0	350.5	324.7	317.3	285.9	265.7	262.0	232.4	195.5	188.2
65°	713.9	273.0	262.0	278.6	254.6	236.1	226.9	182.6	143.9	138.4
67.5°	501.8	228.8	206.6	243.5	221.4	197.4	191.9	155.0	119.9	116.2
70°	357.9	186.3	169.7	208.5	177.1	173.4	162.3	129.1	97.8	94.1
72.5°	252.7	142.1	131.0	180.8	121.8	149.4	132.8	99.6	73.8	70.1
75°	186.3	101.5	92.2	105.2	88.6	112.5	94.1	66.4	46.1	44.3
77.5°	136.5	64.6	55.3	51.7	51.7	70.1	51.7	27.7	20.3	18.4
80°	95.9	29.5	25.8	22.1	20.3	16.6	7.4	3.7	1.8	1.8
82.5°	57.2	12.9	12.9	9.2	5.5	0.0	0.0	0.0	0.0	0.0
85°	12.9	5.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)