

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: P456303

Luminaire Tested: **GALN-SA7C-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38339 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 377
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

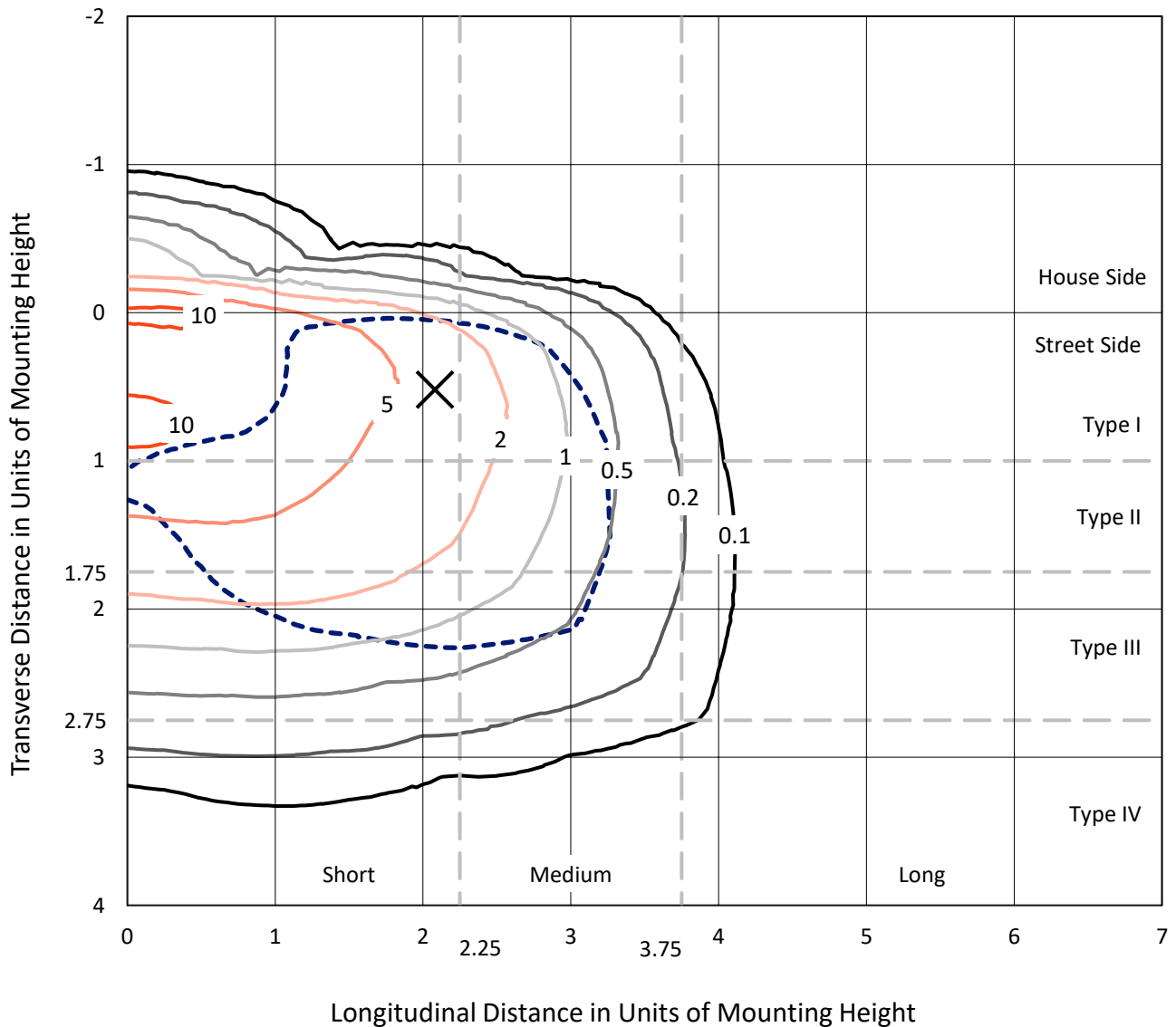




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Iso-Footcandle Lines of Horizontal Illumination

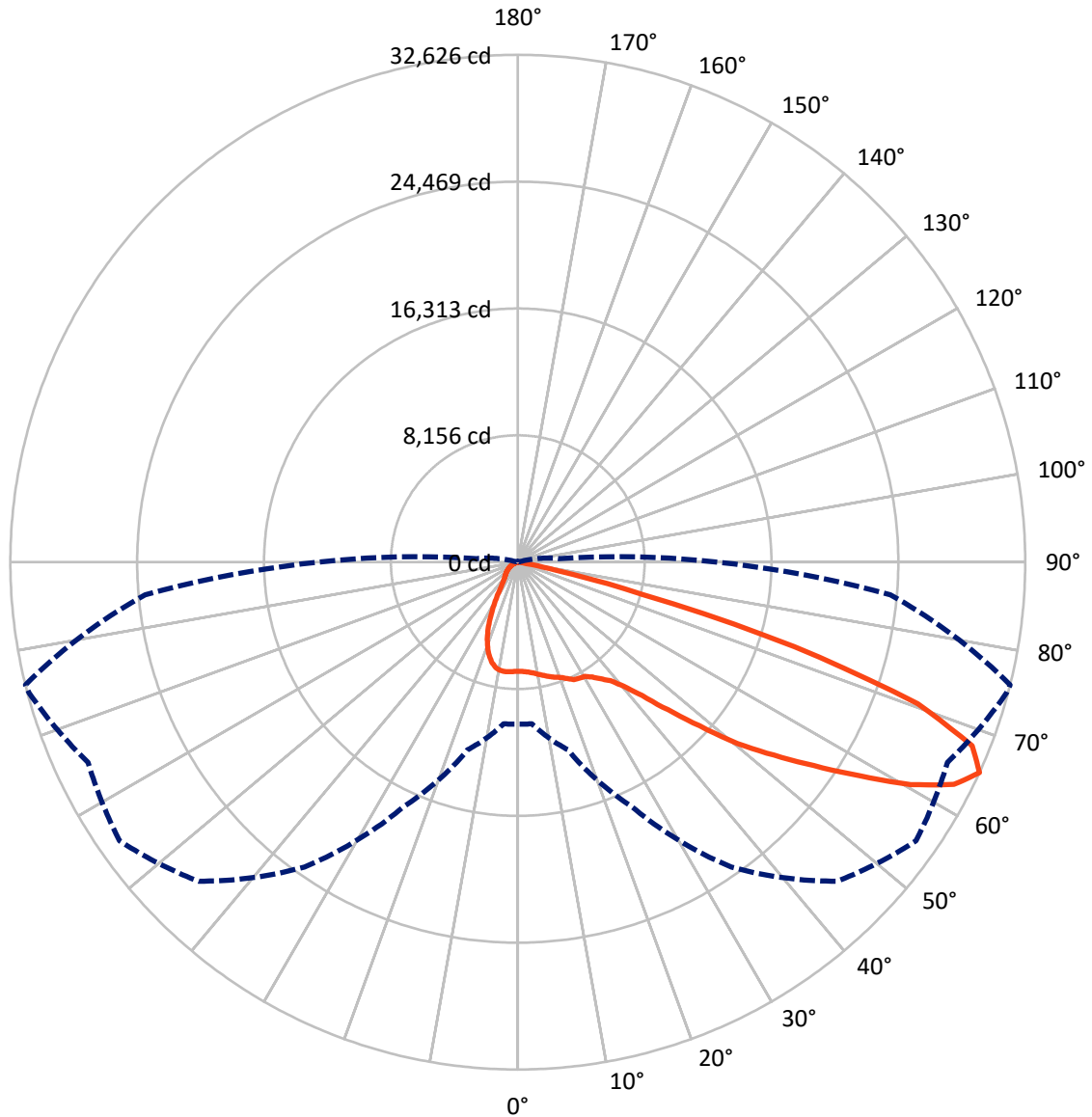
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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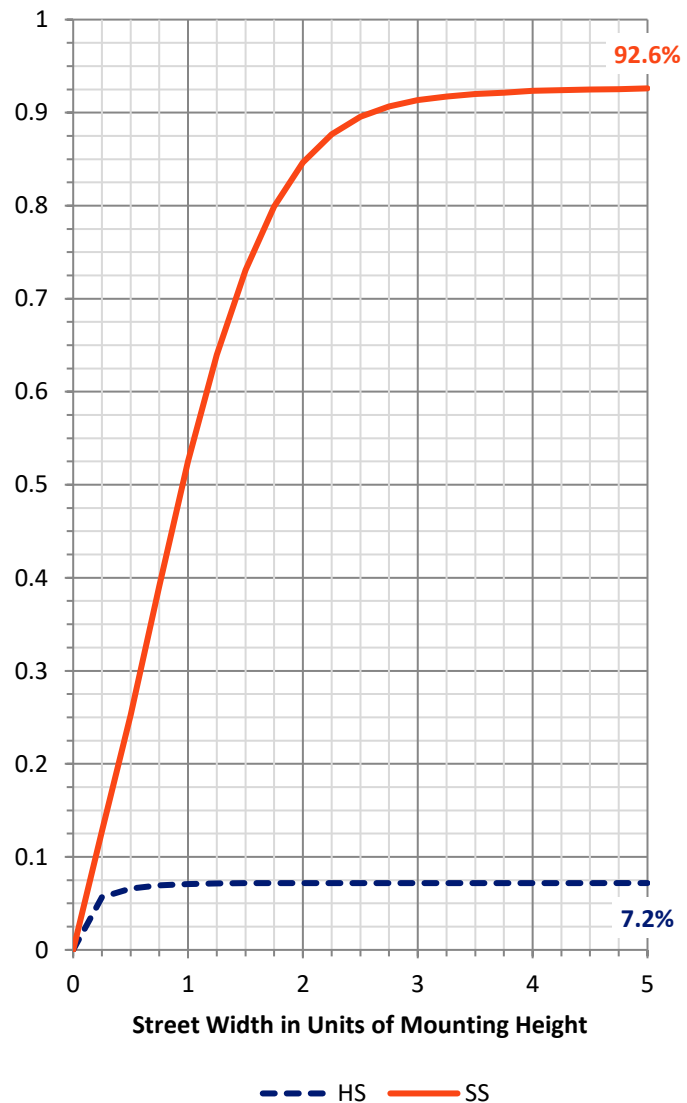
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2768.8	0.0	2768.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35570.2	0.0	35570.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	38339.0	0.0	38339.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.7	1.5
10°-20°	1286.4	3.4
20°-30°	2072.9	5.4
30°-40°	3604.3	9.4
40°-50°	5955.8	15.5
50°-60°	9200.5	24.0
60°-70°	11235.1	29.3
70°-80°	4264.0	11.1
80°-90°	142.3	0.4
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°	38339.0	100.0
0°-180°	38339.0	100.0



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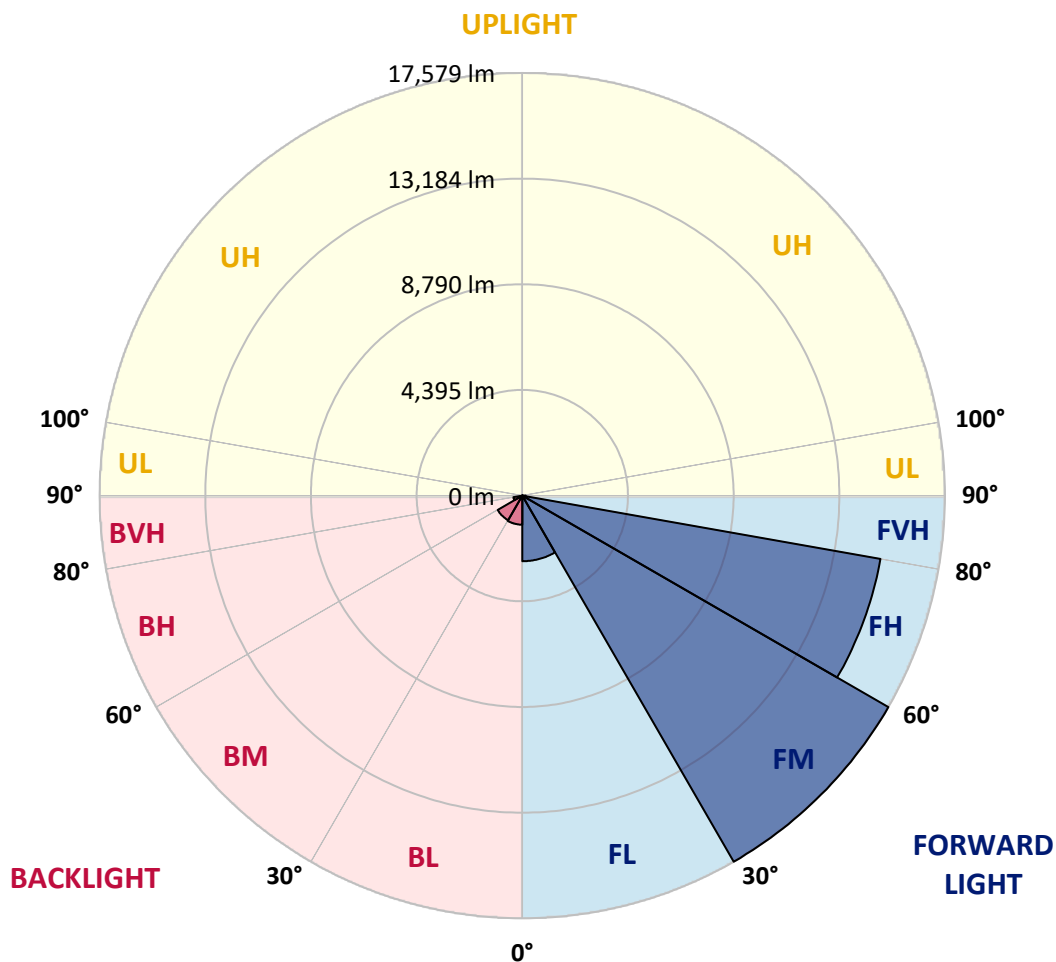
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.4	7.1			
FM (30°-60°)	17579.0	45.9			
FH (60°-80°)	15123.4	39.4			G5
FVH (80°-90°)	140.3	0.4			G2/225
BL (0°-30°)	1209.6	3.2	B3/2500		
BM (30°-60°)	1181.5	3.1	B2/2500		
BH (60°-80°)	375.7	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4
2.5°	6702.1	6704.8	6721.1	6761.7	6823.9	6875.4	6918.7	6989.1	7037.8	7043.2	7059.4
5°	6239.3	6206.8	6239.3	6344.8	6439.6	6583.0	6759.0	6934.9	7091.9	7102.8	7178.5
7.5°	5719.6	5746.6	5798.1	5906.3	6085.0	6304.2	6558.7	6872.7	7170.4	7197.5	7346.4
10°	5191.7	5251.3	5335.2	5500.3	5749.3	6033.5	6380.0	6829.4	7294.9	7332.8	7590.0
12.5°	4704.5	4731.6	4834.4	5056.4	5365.0	5765.6	6244.7	6805.0	7433.0	7479.0	7849.8
15°	4330.9	4366.1	4455.5	4655.8	4999.5	5513.8	6133.7	6796.9	7568.3	7633.3	8109.7
17.5°	4260.6	4282.2	4320.1	4455.5	4755.9	5313.5	6033.5	6794.2	7698.3	7776.8	8350.6
20°	4550.2	4531.3	4493.4	4479.8	4644.9	5159.2	5960.5	6815.8	7822.8	7912.1	8605.0
22.5°	5275.6	5300.0	5078.0	4815.5	4761.3	5134.9	5949.6	6918.7	8020.4	8125.9	8889.3
25°	6815.8	6629.1	6282.6	5654.6	5180.9	5283.8	6071.4	7162.3	8250.5	8366.8	9146.4
27.5°	8518.4	8461.6	7922.9	6888.9	6006.5	5597.7	6288.0	7349.1	8326.2	8445.3	9292.6
30°	10191.3	10258.9	9641.8	8499.5	7205.6	6179.7	6491.0	7419.5	8393.9	8518.4	9479.4
32.5°	11742.3	11823.5	11282.1	10150.7	8618.6	7186.7	6840.2	7692.8	8678.1	8805.4	9790.6
35°	12963.1	12973.9	12565.2	11663.8	10161.5	8410.2	7595.4	8172.0	9062.5	9211.4	10120.9
37.5°	14083.7	14067.5	13588.3	12811.5	11447.2	9625.5	8545.5	8724.2	9501.0	9655.3	10597.3
40°	14914.7	14925.5	14771.2	14040.4	12646.4	10748.9	9298.0	9241.2	10237.3	10478.2	11290.2
42.5°	15469.6	15569.8	15645.5	15274.7	14154.1	12132.1	10453.8	10348.3	11514.9	11715.2	12270.1
45°	15918.9	16097.6	16476.5	16457.6	15602.2	13829.3	12040.0	11823.5	13325.8	13539.6	13518.0
47.5°	16246.5	16427.8	17055.8	17434.8	16963.8	15475.0	14035.0	13848.2	15488.5	15721.3	14895.7
50°	16414.3	16630.8	17432.1	18165.6	18027.6	17061.2	16308.7	16319.5	18100.6	18325.3	16492.8
52.5°	16021.8	16303.3	17632.4	18953.3	19221.3	18579.8	18439.0	18796.3	20425.8	20618.0	17935.5
55°	14768.5	15123.1	17359.0	19624.6	20604.5	20371.7	20858.9	21403.0	22967.6	23092.1	19416.2
57.5°	13975.4	14351.7	16552.3	20195.7	22266.5	22623.8	23395.2	23793.1	25590.5	25907.2	21116.1
60°	13306.8	13601.9	15889.2	20317.6	23955.5	25379.3	26129.1	26540.6	28827.9	29033.6	22986.5
62.5°	12194.3	12532.7	14768.5	19467.6	24805.5	27585.4	29139.2	28955.1	31331.7	31475.2	24134.2
65°	10405.1	10434.9	12494.8	17331.9	23928.5	29017.3	31253.2	30481.7	32528.1	32625.6	24044.9
67.5°	7765.9	8052.9	9612.0	13623.5	20212.0	27793.8	31938.0	30522.3	31772.9	31502.2	22136.6
70°	5002.2	5221.5	6515.4	9446.9	14573.6	23194.9	29667.0	28430.0	27885.9	27285.0	18119.6
72.5°	2308.9	2590.4	3870.8	5397.4	8642.9	16522.6	24082.8	23097.5	20071.2	18587.9	11517.6
75°	1006.9	1077.3	1911.0	2847.6	4052.1	8737.7	15878.3	14338.1	9065.2	8280.2	4609.8
77.5°	614.5	660.5	1001.5	1526.7	1591.6	3329.4	8553.6	6255.5	2801.6	2471.3	1250.6
80°	416.9	468.3	728.1	798.5	544.1	928.4	3210.3	1670.1	565.7	541.4	268.0
82.5°	203.0	257.1	538.7	446.6	235.5	297.8	933.9	357.3	165.1	154.3	94.7
85°	29.8	51.4	303.2	292.3	105.6	70.4	165.1	89.3	56.8	54.1	43.3
87.5°	0.0	0.0	102.9	46.0	10.8	10.8	18.9	18.9	21.7	18.9	21.7
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°	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4	7013.4
2.5°	7067.6	7081.1	7029.7	6956.6	6878.1	6799.6	6688.6	6588.5	6528.9	6564.1	6477.5
5°	7194.8	7184.0	7048.6	6826.7	6531.6	6177.0	5825.1	5524.7	5427.2	5281.0	5264.8
7.5°	7370.7	7341.0	7054.0	6545.1	5879.3	5213.4	4563.7	4133.3	3887.0	3678.6	3684.0
10°	7617.1	7530.4	6991.8	6049.8	4953.5	3949.3	3121.0	2552.6	2306.2	2227.7	2165.5
12.5°	7871.5	7703.7	6818.5	5381.2	3857.2	2698.7	1897.5	1551.0	1399.4	1350.7	1345.3
15°	8098.9	7833.6	6515.4	4577.3	2804.3	1724.3	1293.9	1180.2	1161.2	1163.9	1161.2
17.5°	8323.5	7936.5	6095.8	3724.6	1905.6	1237.0	1112.5	1085.4	1093.6	1104.4	1101.7
20°	8510.3	7958.1	5559.9	2842.2	1348.0	1085.4	1044.8	1039.4	1047.5	1055.7	1055.7
22.5°	8713.3	7974.4	4923.7	1967.9	1101.7	1009.7	988.0	988.0	998.8	1009.7	1012.4
25°	8864.9	7885.0	4163.1	1413.0	971.8	936.6	925.7	928.4	939.3	944.7	942.0
27.5°	8889.3	7633.3	3356.5	1082.7	882.4	847.2	836.4	847.2	833.7	841.8	836.4
30°	8910.9	7313.9	2539.0	912.2	801.2	747.1	730.8	714.6	703.8	690.2	687.5
32.5°	8978.6	6937.6	1854.2	820.2	725.4	665.9	628.0	582.0	546.8	536.0	533.2
35°	9008.4	6485.6	1361.5	747.1	657.8	592.8	525.1	460.2	408.7	389.8	403.3
37.5°	9122.1	6047.1	1055.7	693.0	598.2	517.0	430.4	349.2	300.5	289.6	295.0
40°	9354.8	5570.7	885.1	646.9	546.8	446.6	341.1	262.6	230.1	219.3	216.5
42.5°	9728.4	5097.0	787.7	603.6	495.4	376.3	268.0	205.7	178.7	170.5	170.5
45°	10183.1	4642.2	720.0	557.6	441.2	303.2	211.1	165.1	148.9	143.5	143.5
47.5°	10781.4	4244.3	663.2	511.6	381.7	240.9	170.5	143.5	132.6	135.3	138.0
50°	11387.7	3949.3	600.9	460.2	314.0	197.6	146.2	127.2	124.5	127.2	127.2
52.5°	11845.1	3776.0	517.0	389.8	246.3	165.1	129.9	119.1	116.4	111.0	111.0
55°	12462.3	3738.1	411.4	316.7	194.9	138.0	116.4	108.3	100.2	94.7	92.0
57.5°	13255.4	3781.5	316.7	246.3	151.6	113.7	102.9	89.3	78.5	67.7	67.7
60°	13748.0	3684.0	246.3	189.5	111.0	92.0	78.5	65.0	51.4	43.3	40.6
62.5°	13591.1	3272.6	194.9	140.8	78.5	67.7	51.4	43.3	29.8	21.7	18.9
65°	12781.7	2641.9	157.0	97.4	56.8	40.6	27.1	27.1	13.5	2.7	0.0
67.5°	11187.4	1957.0	124.5	65.0	32.5	18.9	13.5	8.1	0.0	0.0	0.0
70°	9105.8	1413.0	97.4	40.6	18.9	13.5	5.4	2.7	0.0	0.0	0.0
72.5°	5781.8	809.3	75.8	24.4	13.5	5.4	0.0	0.0	0.0	0.0	0.0
75°	2235.9	316.7	51.4	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	633.4	148.9	29.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	165.1	65.0	16.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.5	27.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.0	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	2.7	0.0	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	0.0

(END OF REPORT)