

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: P530671

Luminaire Tested: **GALN-SA5D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22965 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 309
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

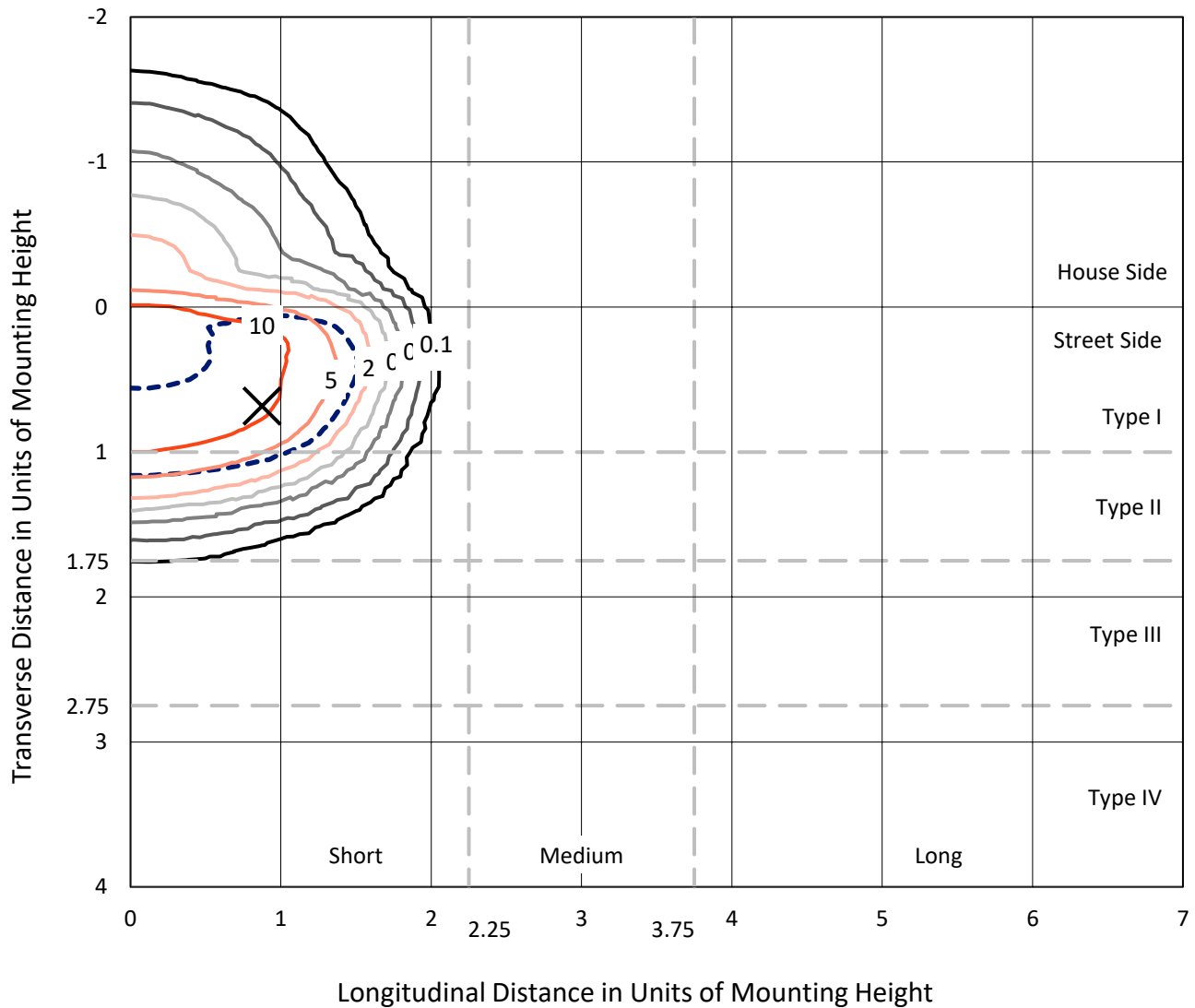


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

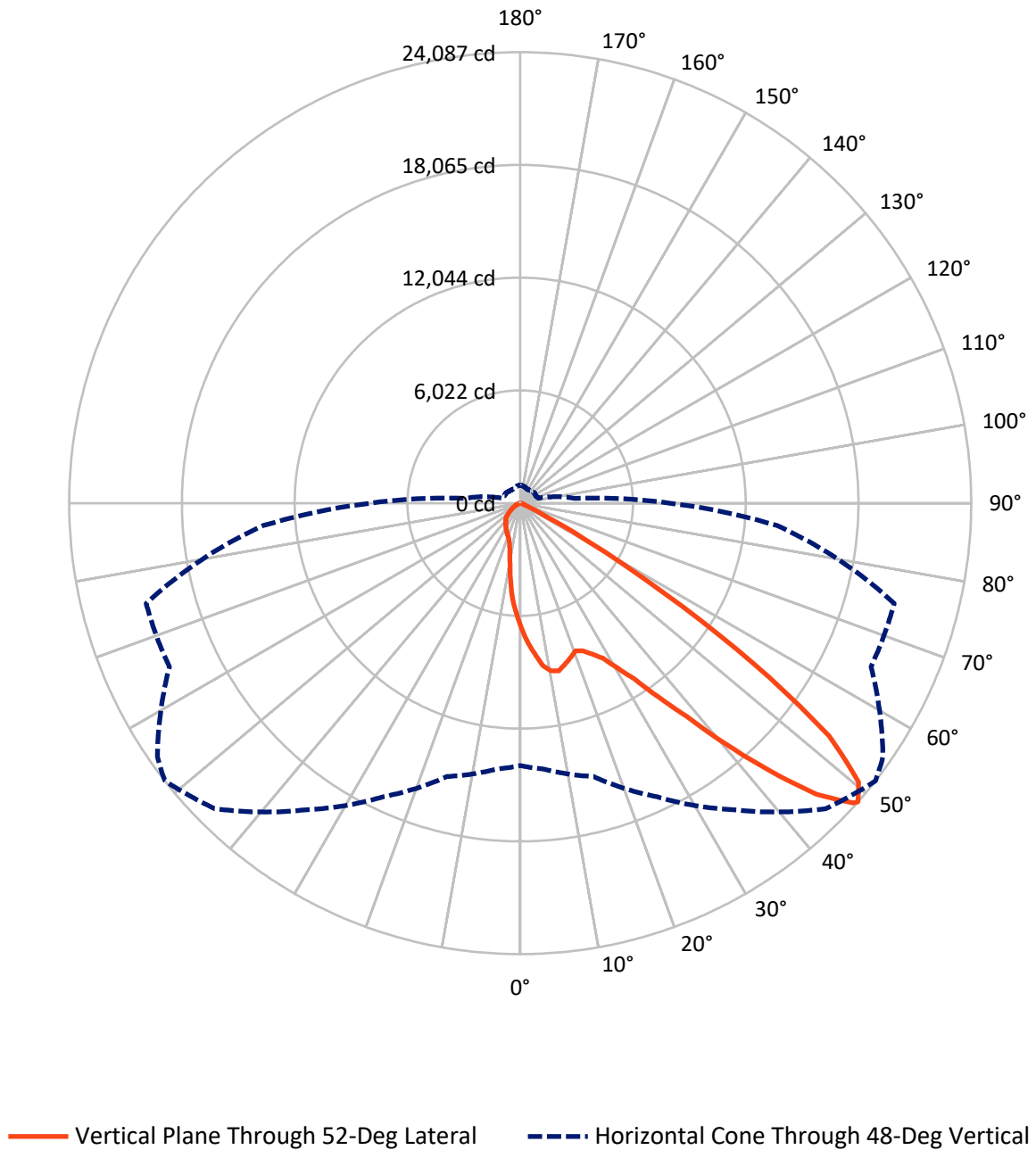


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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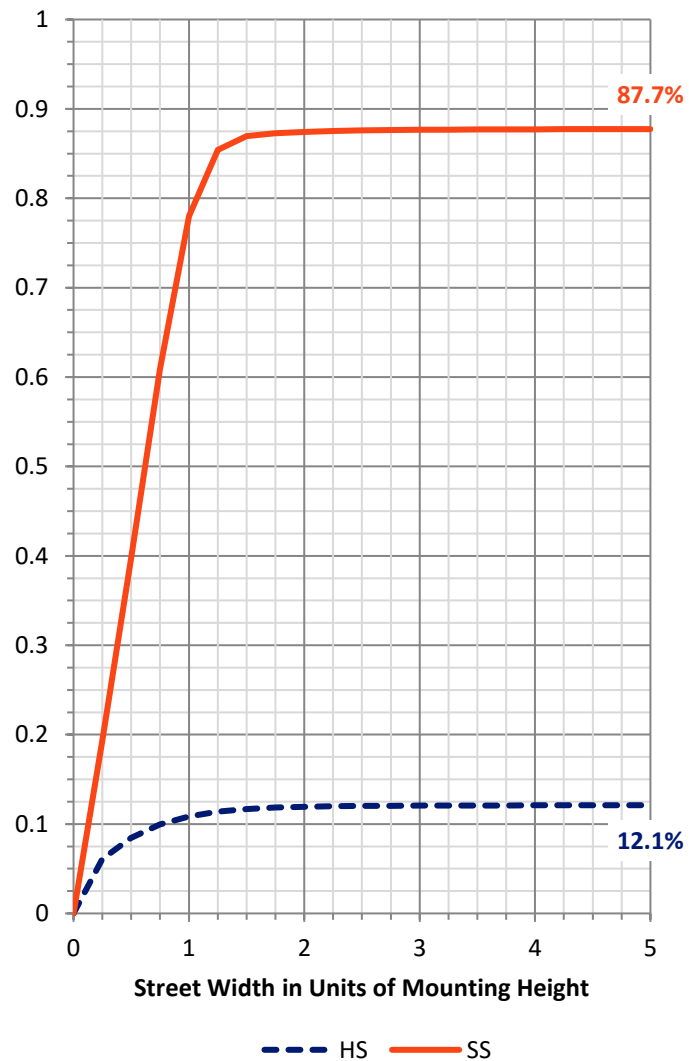
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.2	0.0	2796.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20168.8	0.0	20168.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	22965.0	0.0	22965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.0	2.6
10°-20°	1586.3	6.9
20°-30°	2708.5	11.8
30°-40°	4987.7	21.7
40°-50°	7746.0	33.7
50°-60°	4661.8	20.3
60°-70°	539.2	2.3
70°-80°	104.4	0.5
80°-90°	24.1	0.1
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°	22965.0	100.0
0°-180°	22965.0	100.0

Coefficient of Utilization



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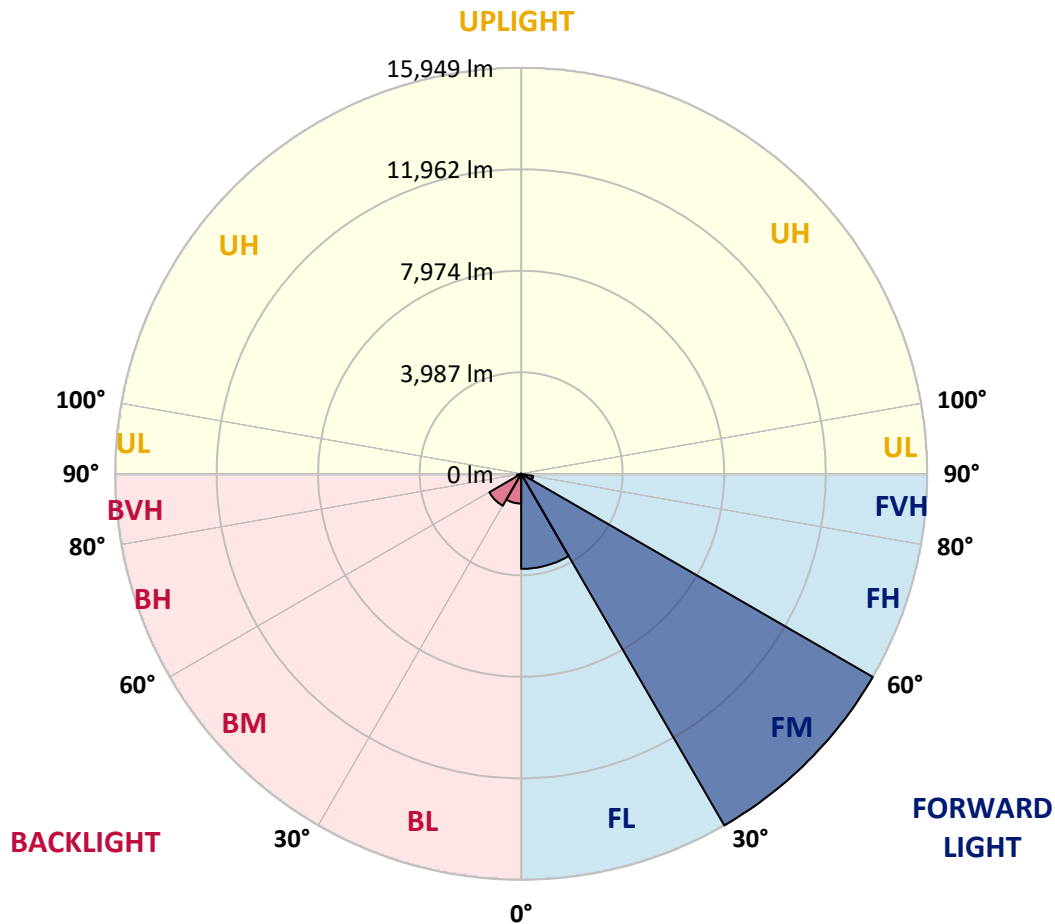
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3733.8	16.3			
FM	(30°-60°)	15948.7	69.4			
FH	(60°-80°)	474.8	2.1			G0/660
FVH	(80°-90°)	11.5	0.0			G1/100
BL	(0°-30°)	1168.1	5.1	B3/2500		
BM	(30°-60°)	1446.7	6.3	B2/2500		
BH	(60°-80°)	168.8	0.7	B1/500		G1/500
BVH	(80°-90°)	12.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9
2.5°	8038.0	7853.8	7870.6	7750.1	7679.8	7565.9	7411.9	7381.8	7214.4	6986.8	6755.8
5°	8761.1	8717.6	8774.5	8600.4	8607.1	8419.6	8058.1	8064.8	7679.8	7308.2	6949.9
7.5°	8808.0	8707.5	8764.4	8918.4	9008.8	8975.3	8771.1	8593.7	8228.8	7683.1	7160.9
10°	7887.3	8078.1	8138.4	8392.8	8754.4	9136.0	9112.6	9122.6	8818.0	8104.9	7341.6
12.5°	7334.9	7207.7	7411.9	7565.9	8111.6	8851.5	9189.6	9263.2	9286.7	8513.4	7522.4
15°	7083.9	7083.9	7117.3	7160.9	7555.9	8238.8	8928.5	9142.7	9648.2	9049.0	7807.0
17.5°	7241.2	7234.5	7281.4	7191.0	7338.3	7863.9	8687.4	8931.8	10053.3	9574.6	8031.3
20°	7719.9	7743.4	7713.2	7452.1	7462.2	7857.2	8419.6	8804.6	10327.8	10029.9	8329.2
22.5°	8386.1	8399.5	8228.8	7944.2	7860.5	8054.7	8573.6	8868.2	10548.8	10575.6	8419.6
25°	9156.1	9102.6	9069.1	8667.3	8412.9	8580.3	8921.8	9092.5	10686.0	11044.3	8677.4
27.5°	10224.1	10116.9	9912.7	9554.5	9367.0	9129.3	9373.7	9654.9	11077.7	11700.4	8958.6
30°	11800.9	11707.1	11308.7	10846.7	10354.6	10120.3	10197.3	10351.3	11784.1	12460.4	9330.2
32.5°	14174.4	13976.9	13401.1	12520.6	11851.1	11204.9	11184.9	11348.9	12416.8	13511.6	9772.1
35°	16789.0	16728.8	15881.8	14974.5	13678.9	12681.3	12698.0	12785.1	13628.7	14890.8	10351.3
37.5°	18526.5	18857.9	18318.9	17344.7	16256.7	14830.6	14469.0	14499.1	15292.6	16524.5	11395.8
40°	19868.9	19587.7	19651.3	19423.7	18680.5	17709.6	16909.5	16752.2	17217.5	18332.3	12433.6
42.5°	19283.1	19296.5	19688.2	20227.2	20411.3	20341.0	19524.1	19226.2	18864.6	19812.0	13421.2
45°	17629.3	17974.1	18483.0	19909.1	21161.2	22336.2	22175.6	21680.1	20002.9	20983.8	13990.3
47.5°	14991.3	14977.9	15811.5	17666.1	20448.1	23200.0	23929.8	23581.6	20809.7	20853.2	13873.1
48°	14017.1	14258.1	15118.5	17301.2	19996.2	23072.8	24087.1	23648.6	20672.4	20679.1	13772.7
50°	10361.3	10317.8	11389.1	14067.3	17860.3	21680.1	23424.3	23765.7	20669.1	19798.6	13069.7
52.5°	5473.6	5661.1	6441.1	8844.8	12627.7	17743.1	20662.4	21194.7	19939.3	18359.1	12058.6
55°	2326.7	2102.4	2701.6	3993.9	7103.9	11854.4	15158.7	16343.8	16859.3	16246.7	10548.8
57.5°	830.2	907.2	1044.5	1503.1	2986.2	6488.0	9038.9	9959.6	11680.3	11921.4	7187.6
60°	532.3	542.3	585.9	689.6	1121.5	2500.8	4288.5	5021.6	5801.7	5989.1	3354.5
62.5°	411.8	415.1	435.2	451.9	532.3	970.9	1610.3	1908.2	1981.9	1704.0	880.5
65°	344.8	348.2	354.9	354.9	378.3	455.3	562.4	619.3	602.6	595.9	498.8
67.5°	264.5	271.2	284.6	284.6	298.0	277.9	311.3	331.4	374.9	455.3	425.2
70°	207.6	210.9	221.0	227.6	227.6	200.9	224.3	244.4	274.5	338.1	334.8
72.5°	160.7	167.4	174.1	174.1	164.0	137.3	160.7	177.4	197.5	234.3	227.6
75°	123.9	123.9	127.2	103.8	80.3	70.3	97.1	117.2	147.3	154.0	127.2
77.5°	33.5	36.8	33.5	30.1	33.5	50.2	63.6	73.7	93.7	93.7	83.7
80°	0.0	3.3	10.0	20.1	33.5	46.9	56.9	63.6	73.7	80.3	77.0
82.5°	0.0	3.3	10.0	20.1	30.1	36.8	50.2	53.6	60.3	70.3	70.3
85°	0.0	3.3	6.7	13.4	20.1	23.4	23.4	20.1	20.1	16.7	13.4
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	10.0	10.0	10.0	10.0	10.0
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°	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9	6631.9
2.5°	6665.4	6561.6	6404.3	6156.5	5918.8	5764.8	5617.5	5453.5	5363.1	5356.4	5306.2
5°	6745.7	6511.4	6136.4	5711.3	5256.0	4864.3	4469.3	4211.5	3980.5	3853.3	3829.8
7.5°	6789.3	6484.6	5878.7	5165.6	4388.9	3749.5	3307.6	2982.9	2855.6	2761.9	2758.6
10°	6879.6	6437.7	5493.7	4442.5	3481.7	2835.6	2530.9	2383.6	2313.3	2286.5	2246.3
12.5°	6946.6	6350.7	5098.6	3699.3	2751.9	2350.1	2216.2	2182.7	2186.1	2199.5	2182.7
15°	7040.3	6273.7	4566.3	3036.4	2310.0	2115.8	2115.8	2122.5	2169.3	2176.0	2172.7
17.5°	7033.6	6123.1	4017.3	2500.8	2042.1	2015.4	2025.4	2089.0	2119.1	2129.2	2105.7
20°	7114.0	5982.4	3451.5	2135.9	1891.5	1931.7	1998.6	2015.4	2052.2	2058.9	2032.1
22.5°	7090.6	5630.9	2925.9	1848.0	1777.7	1854.7	1921.6	1941.7	1931.7	1911.6	1908.2
25°	7047.0	5329.6	2443.9	1657.1	1694.0	1777.7	1841.3	1804.4	1784.4	1787.7	1791.1
27.5°	6970.0	4948.0	2045.5	1523.2	1580.1	1704.0	1700.7	1687.3	1707.4	1690.6	1707.4
30°	6956.6	4566.3	1717.4	1402.7	1496.4	1586.8	1593.5	1617.0	1640.4	1610.3	1640.4
32.5°	6976.7	4147.9	1483.1	1329.1	1446.2	1449.6	1523.2	1546.7	1529.9	1463.0	1469.7
35°	7130.7	3826.5	1312.3	1288.9	1365.9	1369.2	1439.5	1409.4	1335.8	1295.6	1319.0
37.5°	7455.5	3558.7	1232.0	1252.1	1258.8	1302.3	1305.6	1245.4	1252.1	1248.7	1262.1
40°	7870.6	3354.5	1175.1	1218.6	1211.9	1242.0	1121.5	1155.0	1185.1	1195.1	1201.8
42.5°	8155.1	3207.2	1138.2	1165.0	1151.6	1098.1	1031.1	1064.6	1088.0	1124.8	1131.5
45°	8282.4	3090.0	1094.7	1071.3	1071.3	974.2	947.4	954.1	1007.7	1047.8	1041.2
47.5°	8074.8	2976.2	1017.7	947.4	970.9	890.5	860.4	860.4	917.3	967.5	957.5
48°	7994.4	2929.3	1021.1	920.6	937.4	877.1	847.0	840.3	903.9	950.8	950.8
50°	7596.1	2755.2	934.0	847.0	813.5	806.8	786.7	793.4	833.6	877.1	877.1
52.5°	6819.4	2380.3	790.1	726.5	666.2	706.4	716.4	703.0	723.1	763.3	759.9
55°	5691.2	1827.9	632.7	602.6	555.7	599.2	619.3	602.6	582.5	612.6	612.6
57.5°	3645.7	984.2	505.5	512.2	465.3	508.9	525.6	485.4	448.6	472.0	468.7
60°	1643.7	589.2	415.1	405.1	374.9	425.2	451.9	405.1	354.9	371.6	388.3
62.5°	616.0	418.5	314.7	308.0	301.3	348.2	361.6	324.7	274.5	284.6	287.9
65°	451.9	368.3	251.1	227.6	241.0	274.5	267.8	231.0	197.5	197.5	204.2
67.5°	385.0	321.4	204.2	177.4	177.4	180.8	167.4	147.3	137.3	144.0	150.6
70°	301.3	254.4	160.7	137.3	123.9	110.5	97.1	93.7	83.7	93.7	90.4
72.5°	194.2	170.7	123.9	103.8	93.7	77.0	63.6	60.3	50.2	46.9	46.9
75°	103.8	103.8	97.1	83.7	73.7	60.3	50.2	40.2	26.8	20.1	20.1
77.5°	73.7	80.3	87.0	80.3	67.0	50.2	40.2	26.8	13.4	6.7	6.7
80°	70.3	80.3	87.0	77.0	67.0	50.2	36.8	20.1	10.0	3.3	3.3
82.5°	63.6	73.7	80.3	70.3	60.3	43.5	33.5	20.1	10.0	3.3	3.3
85°	13.4	16.7	20.1	20.1	23.4	30.1	23.4	16.7	6.7	3.3	3.3
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	6.7	6.7	3.3	3.3	3.3
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)