

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: P300380

Luminaire Tested: **GLNA-AF-05-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-AFL-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23769.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

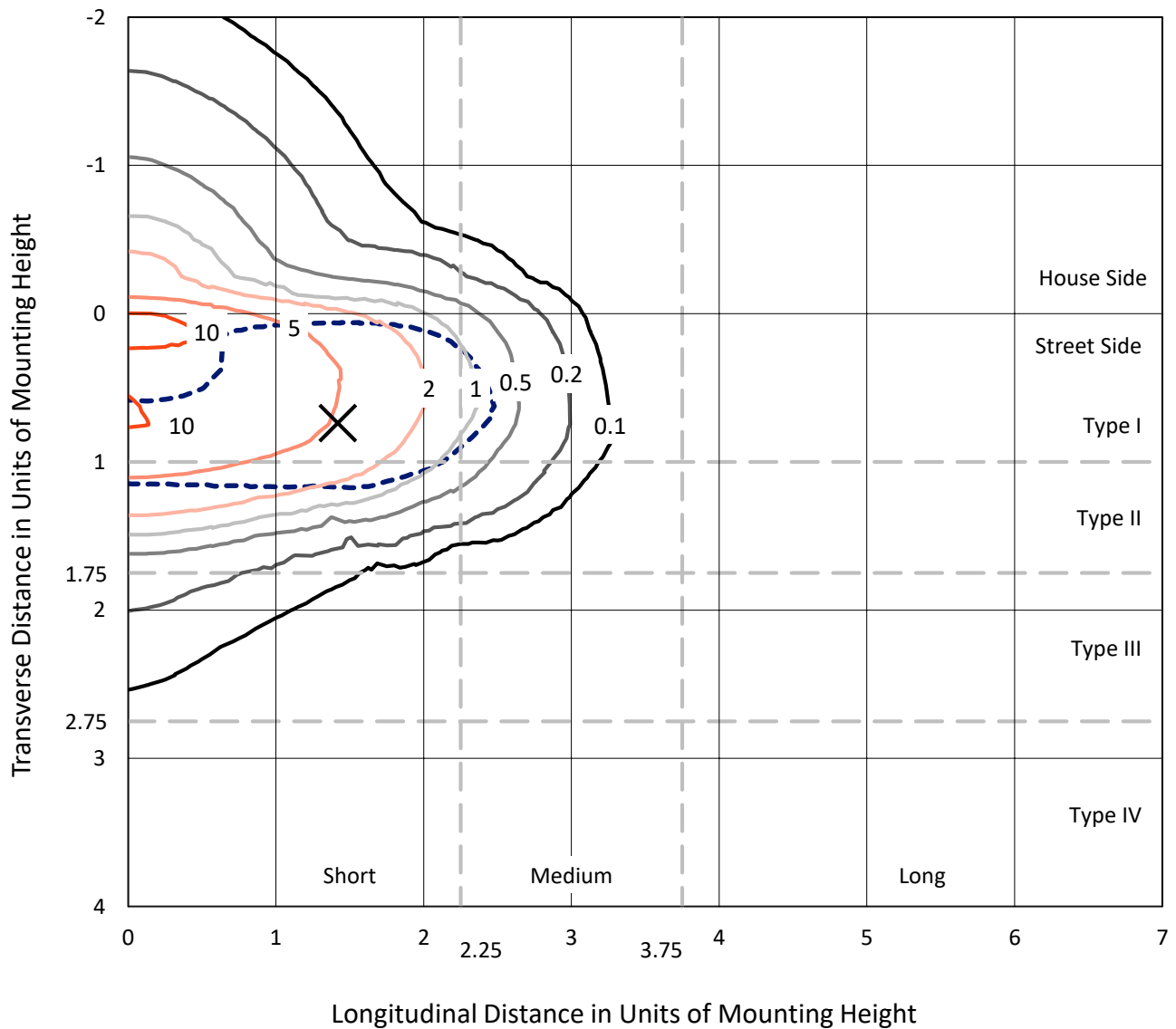
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

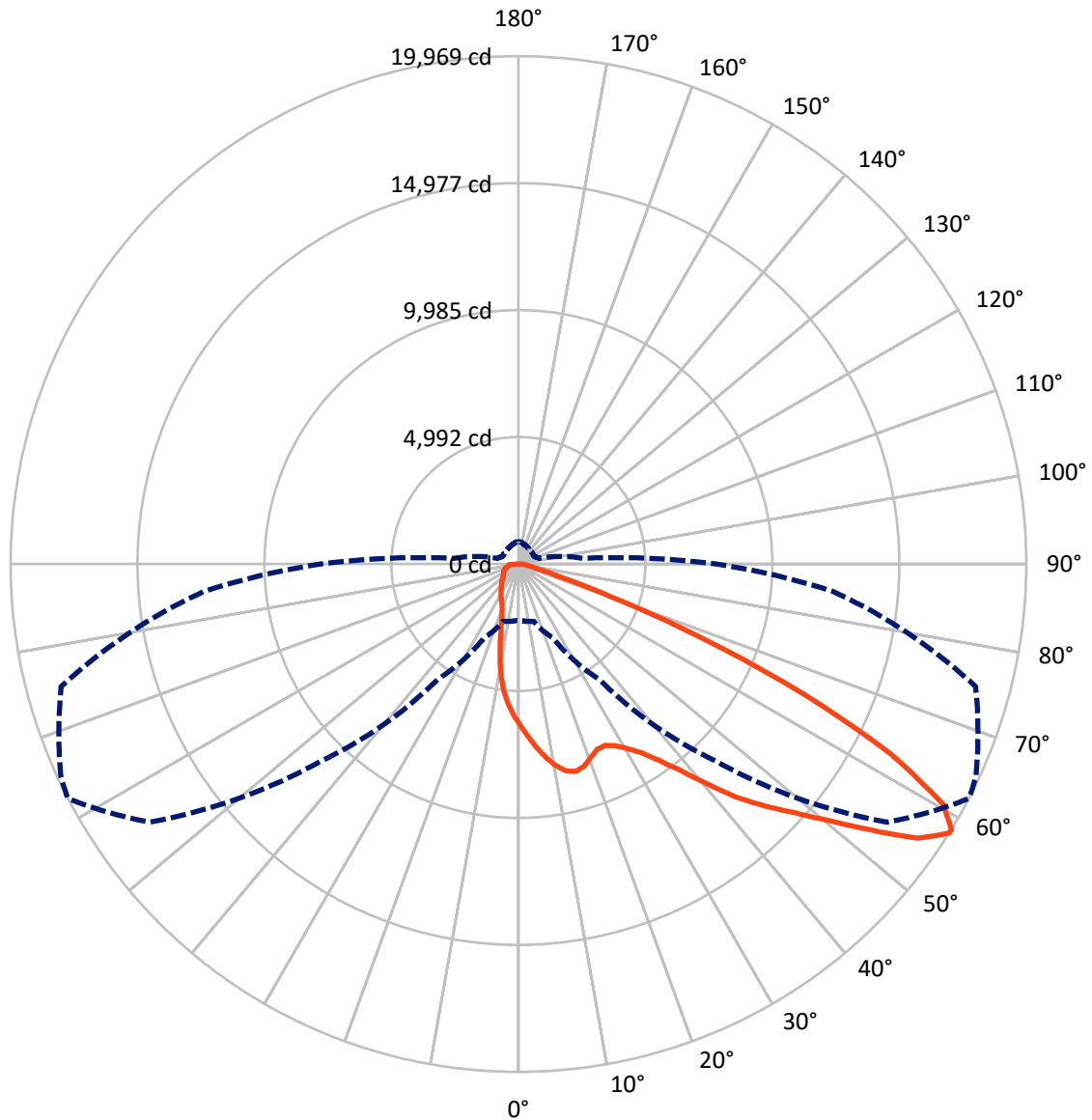
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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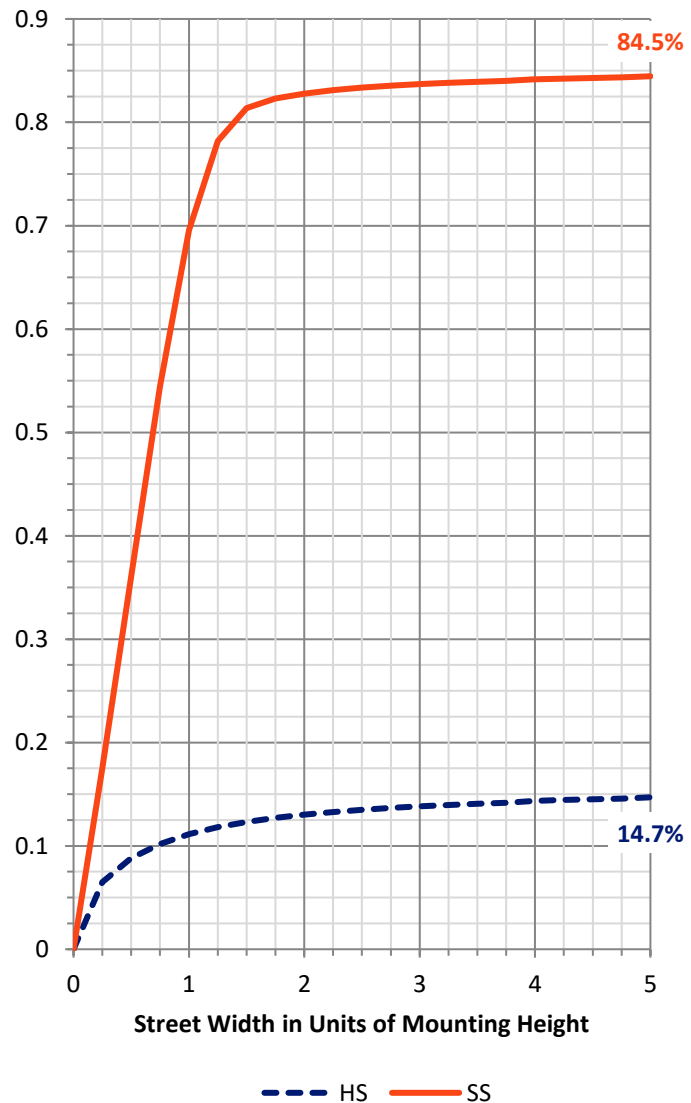
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3624.9	0.0	3624.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20144.6	0.0	20144.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	23769.5	0.0	23769.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.7	2.4
10°-20°	1443.4	6.1
20°-30°	2333.3	9.8
30°-40°	3704.2	15.6
40°-50°	5419.9	22.8
50°-60°	5668.8	23.8
60°-70°	3349.1	14.1
70°-80°	943.5	4.0
80°-90°	342.5	1.4
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°	23769.5	100.0
0°-180°	23769.5	100.0



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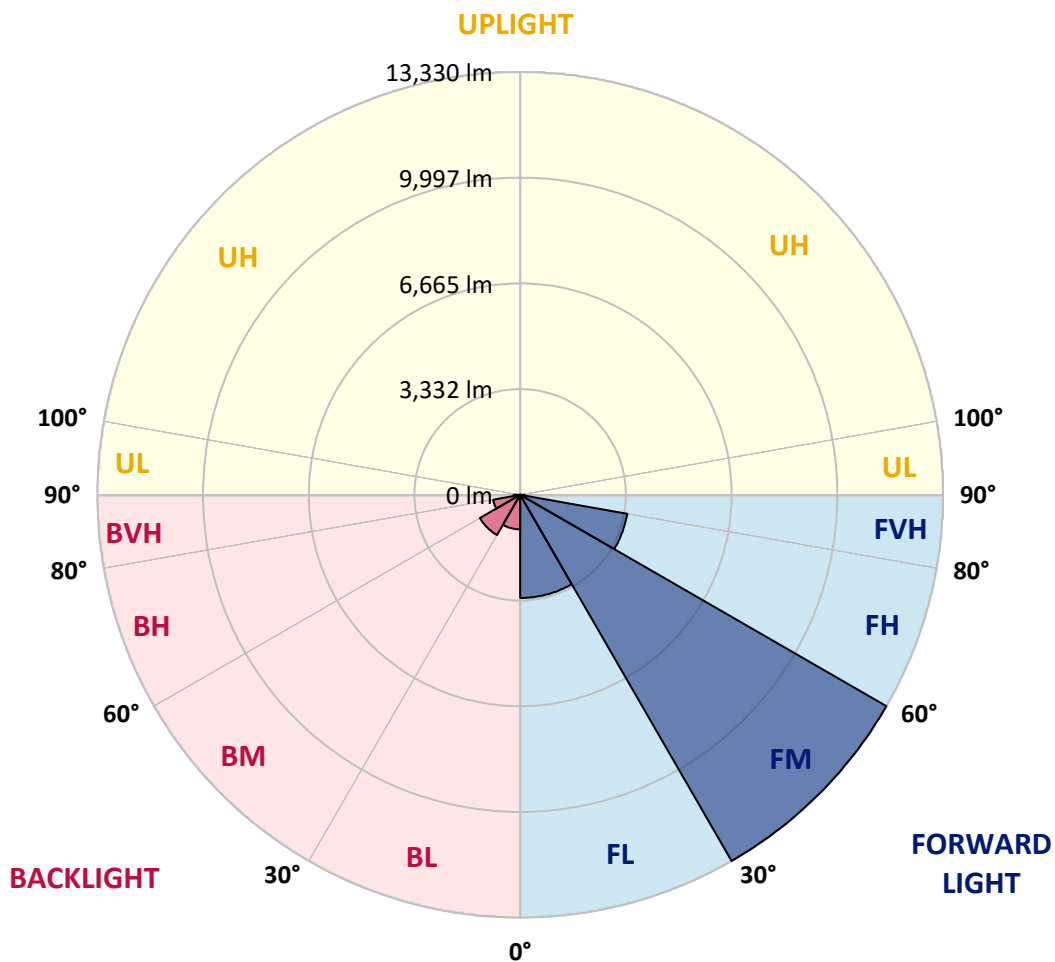
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3252.0	13.7			
FM	(30°-60°)	13329.8	56.1			
FH	(60°-80°)	3427.7	14.4			G2/5000
FVH	(80°-90°)	135.1	0.6			G2/225
BL	(0°-30°)	1089.5	4.6	B3/2500		
BM	(30°-60°)	1463.1	6.2	B2/2500		
BH	(60°-80°)	864.9	3.6	B2/1000		G2/1000
BVH	(80°-90°)	207.4	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	7214.9	7156.7	7119.8	7087.3	7044.8	6954.1	6832.1	6754.9	6715.7	6582.5	6424.7
5°	7922.3	7870.8	7832.8	7789.1	7713.0	7570.8	7373.8	7217.1	7139.9	6873.5	6557.9
7.5°	7756.6	7777.9	7843.9	7959.2	8057.7	8038.7	7863.0	7663.7	7561.9	7191.4	6712.3
10°	6758.2	6795.2	6909.3	7179.1	7615.6	8063.3	8199.9	8062.2	7959.2	7505.9	6871.3
12.5°	6557.9	6556.8	6565.7	6637.4	6897.0	7527.2	8211.1	8349.9	8288.3	7805.9	7033.6
15°	6639.6	6641.8	6635.1	6665.3	6745.9	6995.5	7868.6	8460.7	8504.3	8108.1	7201.5
17.5°	6854.5	6848.9	6823.2	6823.2	6852.3	6949.6	7465.6	8357.7	8559.2	8375.6	7349.2
20°	7214.9	7189.2	7120.9	7058.2	7026.9	7079.5	7300.0	8120.4	8464.0	8609.5	7471.2
22.5°	7651.4	7631.3	7520.5	7386.2	7277.6	7276.5	7385.0	7913.3	8299.5	8830.0	7574.2
25°	8215.5	8183.1	8018.6	7803.7	7613.4	7540.6	7570.8	7903.3	8210.0	9069.6	7666.0
27.5°	8878.2	8818.8	8624.1	8314.0	8034.2	7887.6	7843.9	8085.7	8291.7	9366.2	7793.6
30°	9681.8	9613.5	9363.9	8959.9	8564.8	8324.1	8231.2	8409.2	8562.5	9727.7	7998.4
32.5°	10596.3	10497.8	10209.0	9763.5	9244.2	8877.0	8725.9	8836.7	8958.8	10163.1	8254.7
35°	11859.9	11742.4	11324.9	10710.4	10123.9	9619.1	9377.4	9458.0	9576.6	10812.3	8625.2
37.5°	12721.8	12669.2	12391.6	11814.0	11176.1	10595.1	10221.3	10268.3	10335.5	11623.8	9099.8
40°	12714.0	12735.2	12740.8	12746.4	12312.1	11755.8	11354.0	11304.8	11291.3	12514.7	9639.3
42.5°	12077.1	12164.4	12446.4	13018.4	13282.5	13027.4	12659.1	12517.0	12446.4	13564.6	10211.2
45°	11102.2	11149.2	11677.5	12794.5	13779.5	14286.5	14007.8	13560.1	13432.5	14529.4	10685.8
47.5°	10599.6	10651.1	10983.5	12201.3	13773.9	15304.0	15465.2	14612.3	14383.9	15368.9	11095.5
50°	9403.1	9510.6	9929.2	11169.3	13271.4	15771.8	16988.5	15865.9	15393.5	16186.0	11506.2
52.5°	7206.0	7371.6	7840.6	9472.5	11996.5	15540.1	18207.4	17385.8	16718.7	17032.1	11858.8
55°	4545.4	4668.5	5062.5	6690.0	9596.7	14334.7	18669.7	19030.1	18436.9	17833.6	12164.4
57.5°	2471.4	2526.2	2674.0	3693.6	6242.2	11669.7	17995.9	19965.8	19719.6	18514.1	12395.0
58°	2211.7	2248.6	2340.4	3201.2	5536.0	10941.0	17697.0	19969.2	19846.0	18613.7	12412.9
60°	1640.9	1621.8	1540.1	1826.7	3081.4	7558.5	15890.5	19170.0	19531.5	18735.7	12325.6
62.5°	1441.6	1395.7	1229.0	1209.9	1498.7	3482.1	12158.8	16421.0	17275.0	18039.5	11795.0
65°	1354.3	1305.1	1090.2	1020.8	1081.2	1473.0	7162.3	12315.5	13386.6	15928.5	10438.4
67.5°	1289.4	1225.6	1001.8	906.6	911.1	973.8	2871.0	7756.6	8962.1	12093.9	8119.3
70°	1226.7	1157.3	926.8	817.1	791.3	770.1	1141.7	3882.8	4976.3	7639.1	5176.7
72.5°	1159.6	1091.3	860.7	746.6	696.2	625.7	745.4	1588.3	2218.4	3614.2	2348.3
75°	1062.2	1000.6	794.7	683.9	612.2	518.2	563.0	829.4	995.0	1439.4	1131.6
77.5°	942.4	892.1	720.8	632.4	542.9	420.9	433.2	575.3	638.0	823.8	672.7
80°	677.2	695.1	641.3	568.6	483.5	341.4	332.4	419.7	453.3	529.4	437.6
82.5°	475.7	485.8	530.5	464.5	399.6	268.6	245.1	295.5	315.6	348.1	236.2
85°	328.0	316.8	363.8	323.5	288.8	179.1	167.9	200.4	212.7	216.0	122.0
87.5°	197.0	197.0	210.4	173.5	155.6	92.9	90.7	114.2	122.0	116.4	67.2
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°	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9	6313.9
2.5°	6330.7	6251.2	6082.2	5946.8	5775.5	5597.5	5497.9	5391.6	5318.8	5266.2	5350.2
5°	6378.8	6216.5	5867.3	5536.0	5170.0	4789.4	4500.6	4232.0	4045.1	3928.7	4038.4
7.5°	6454.9	6205.3	5649.0	5082.7	4425.7	3792.1	3225.8	2871.0	2663.9	2562.0	2625.8
10°	6542.2	6187.4	5392.7	4468.2	3528.0	2729.9	2306.8	2163.6	2116.6	2097.5	2106.5
12.5°	6615.0	6149.3	5078.2	3725.0	2649.3	2155.7	2033.7	2030.4	2040.5	2042.7	2046.1
15°	6666.5	6093.4	4611.5	2950.4	2118.8	1964.3	1957.6	1977.8	1996.8	2004.6	2009.1
17.5°	6701.2	5978.1	4084.3	2332.6	1898.3	1871.4	1887.1	1912.9	1933.0	1938.6	1943.1
20°	6697.8	5809.1	3456.3	1945.3	1778.5	1778.5	1805.4	1825.6	1826.7	1820.0	1823.3
22.5°	6663.1	5577.4	2847.5	1739.4	1672.2	1691.2	1718.1	1699.1	1620.7	1569.2	1572.6
25°	6604.9	5300.9	2325.9	1608.4	1573.7	1607.3	1599.5	1456.2	1344.3	1293.9	1293.9
27.5°	6553.4	4974.1	1925.2	1494.2	1475.2	1516.6	1377.8	1248.0	1201.0	1177.5	1169.7
30°	6516.5	4621.5	1657.7	1384.6	1382.3	1352.1	1195.4	1159.6	1151.7	1132.7	1126.0
32.5°	6525.4	4264.5	1486.4	1288.3	1296.1	1157.3	1108.1	1115.9	1109.2	1089.1	1080.1
35°	6599.3	3925.3	1374.5	1201.0	1177.5	1045.4	1056.6	1071.2	1068.9	1040.9	1032.0
37.5°	6731.4	3604.1	1300.6	1128.2	1027.5	989.4	1007.4	1029.7	1024.1	1005.1	998.4
40°	6870.2	3301.9	1240.2	1071.2	939.1	951.4	967.1	979.4	985.0	990.6	986.1
42.5°	7005.6	2986.3	1166.3	1013.0	902.1	915.6	922.3	934.6	964.8	986.1	985.0
45°	7086.2	2689.6	1090.2	930.1	873.0	880.9	876.4	901.0	938.0	972.7	973.8
47.5°	7175.7	2459.1	1029.7	854.0	845.1	850.7	837.2	861.8	895.4	938.0	942.4
50°	7284.3	2321.4	981.6	793.6	807.0	807.0	803.6	826.0	873.0	922.3	931.2
52.5°	7407.4	2294.5	941.3	749.9	768.9	767.8	771.2	804.8	856.3	904.4	912.2
55°	7557.4	2367.3	897.7	717.5	732.0	736.5	747.7	785.7	829.4	884.2	887.6
57.5°	7732.0	2515.0	863.0	691.7	698.4	713.0	730.9	765.6	812.6	873.0	876.4
58°	7761.1	2546.4	857.4	689.5	691.7	708.5	728.7	762.2	809.2	875.3	878.6
60°	7762.2	2650.5	845.1	679.4	666.0	694.0	716.3	749.9	803.6	883.1	891.0
62.5°	7486.9	2649.3	836.1	664.9	639.1	673.8	699.6	738.7	798.0	902.1	917.8
65°	6592.6	2407.6	793.6	642.5	617.8	655.9	685.0	730.9	813.7	985.0	995.0
67.5°	5156.5	1973.3	714.1	611.1	589.9	638.0	676.0	729.8	830.5	1004.0	1010.7
70°	3409.3	1476.3	626.8	575.3	560.8	616.7	680.5	767.8	811.5	963.7	945.8
72.5°	1769.6	1036.5	556.3	530.5	527.2	597.7	745.4	763.4	792.5	906.6	884.2
75°	929.0	719.7	494.7	481.3	486.9	593.2	879.8	743.2	767.8	867.4	910.0
77.5°	568.6	580.9	442.1	436.5	447.7	579.8	878.6	717.5	732.0	798.0	845.1
80°	380.6	471.2	401.8	402.9	410.8	530.5	789.1	677.2	688.4	754.4	802.5
82.5°	240.6	278.7	364.9	383.9	373.8	437.6	670.5	616.7	632.4	863.0	912.2
85°	122.0	174.6	316.8	369.4	336.9	306.7	544.0	540.6	548.4	622.3	650.3
87.5°	56.0	96.3	247.4	322.4	254.1	191.4	395.1	400.7	432.0	442.1	442.1
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)