

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: P532075

Luminaire Tested: **GALN-SA7B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532075
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-SA7B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 23494 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 286
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

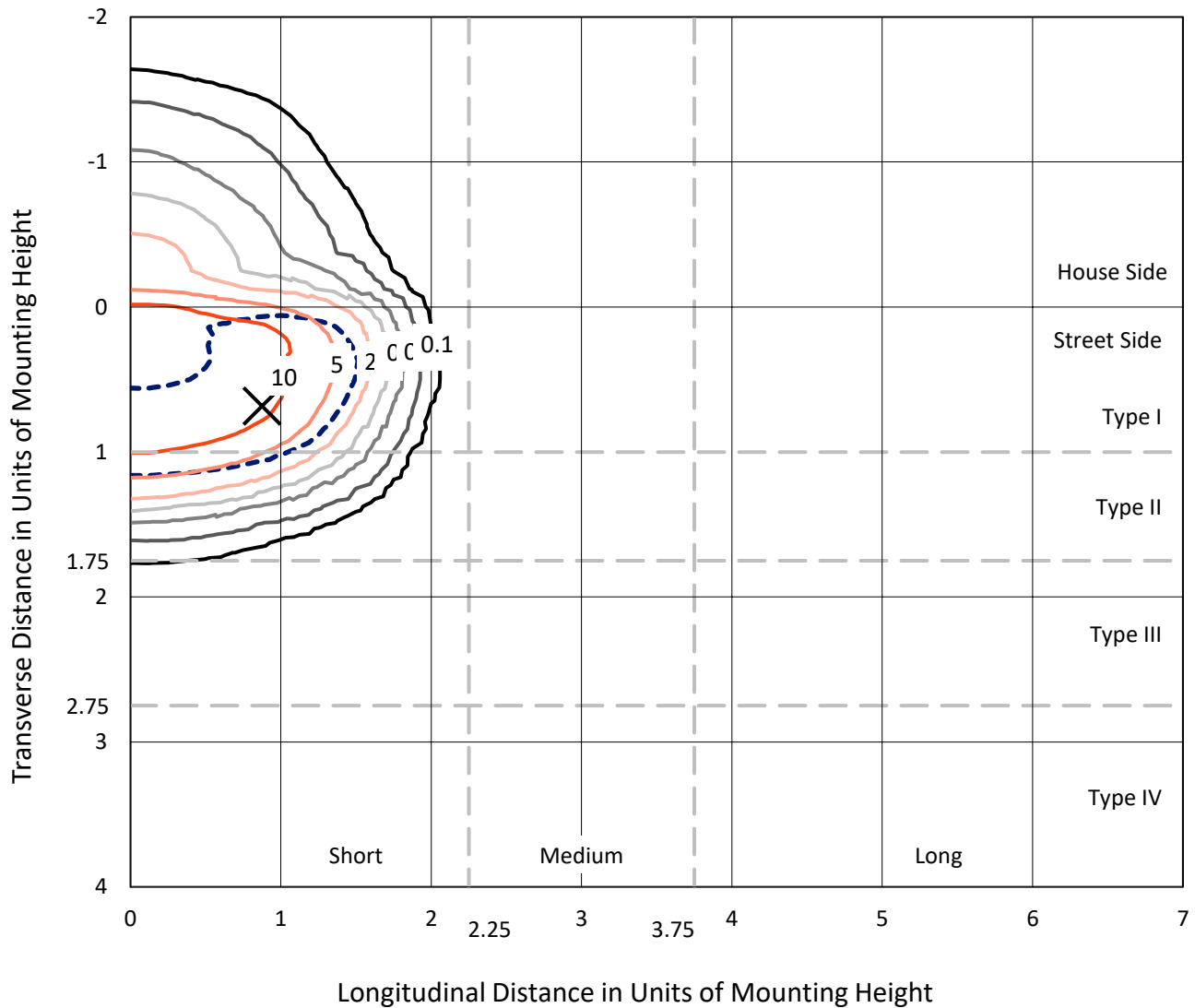


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

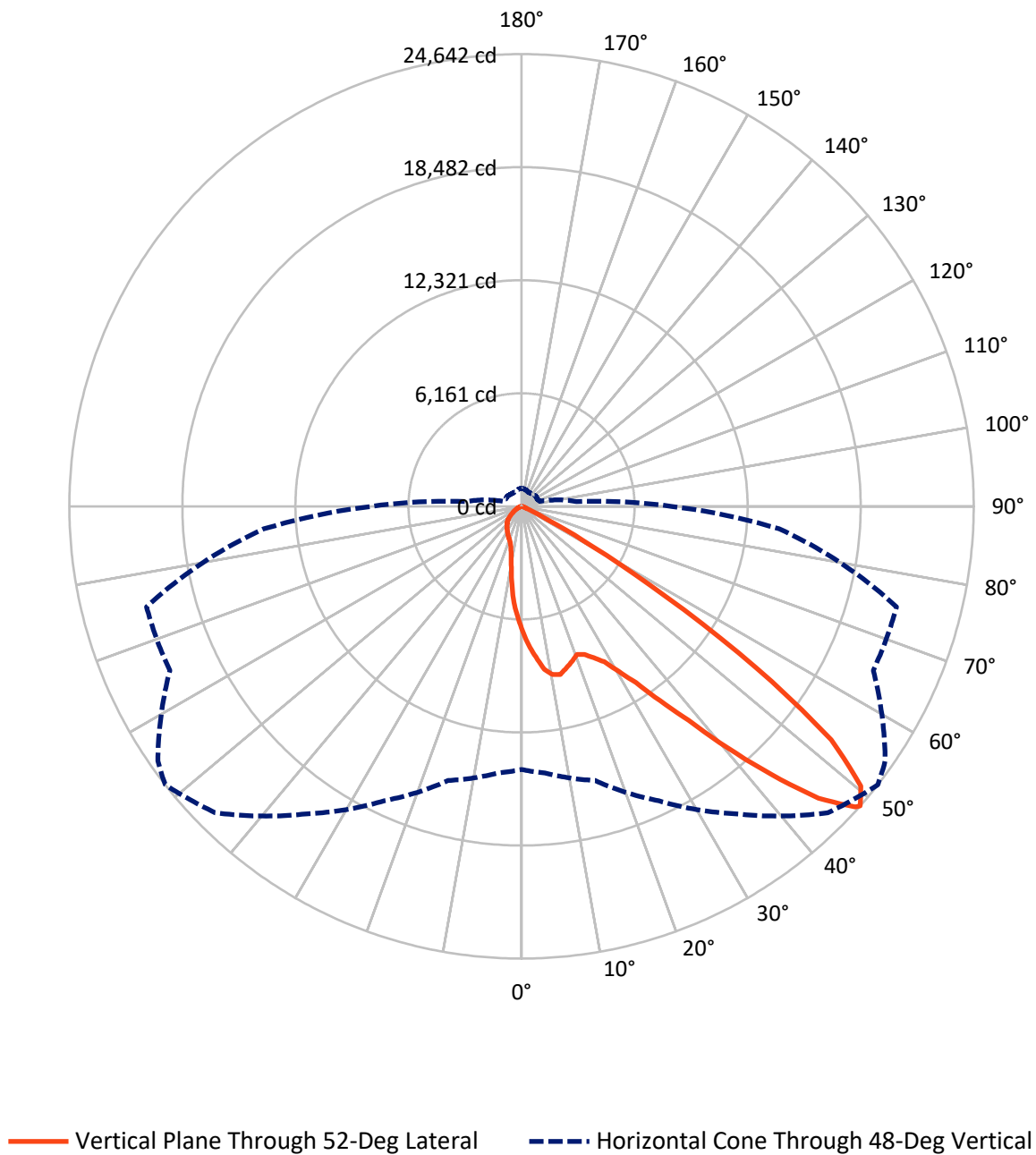


Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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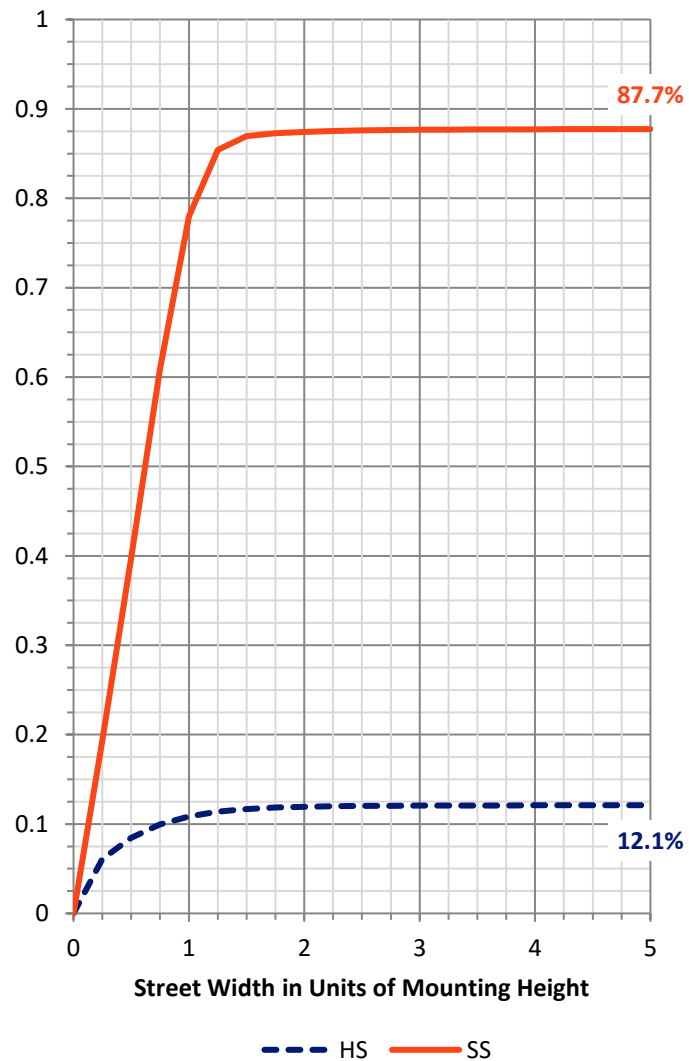
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.6	0.0	2860.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20633.4	0.0	20633.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	23494.0	0.0	23494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.0	2.6
10°-20°	1622.9	6.9
20°-30°	2770.9	11.8
30°-40°	5102.6	21.7
40°-50°	7924.4	33.7
50°-60°	4769.1	20.3
60°-70°	551.6	2.3
70°-80°	106.8	0.5
80°-90°	24.7	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°	23494.0	100.0
0°-180°	23494.0	100.0

Coefficient of Utilization



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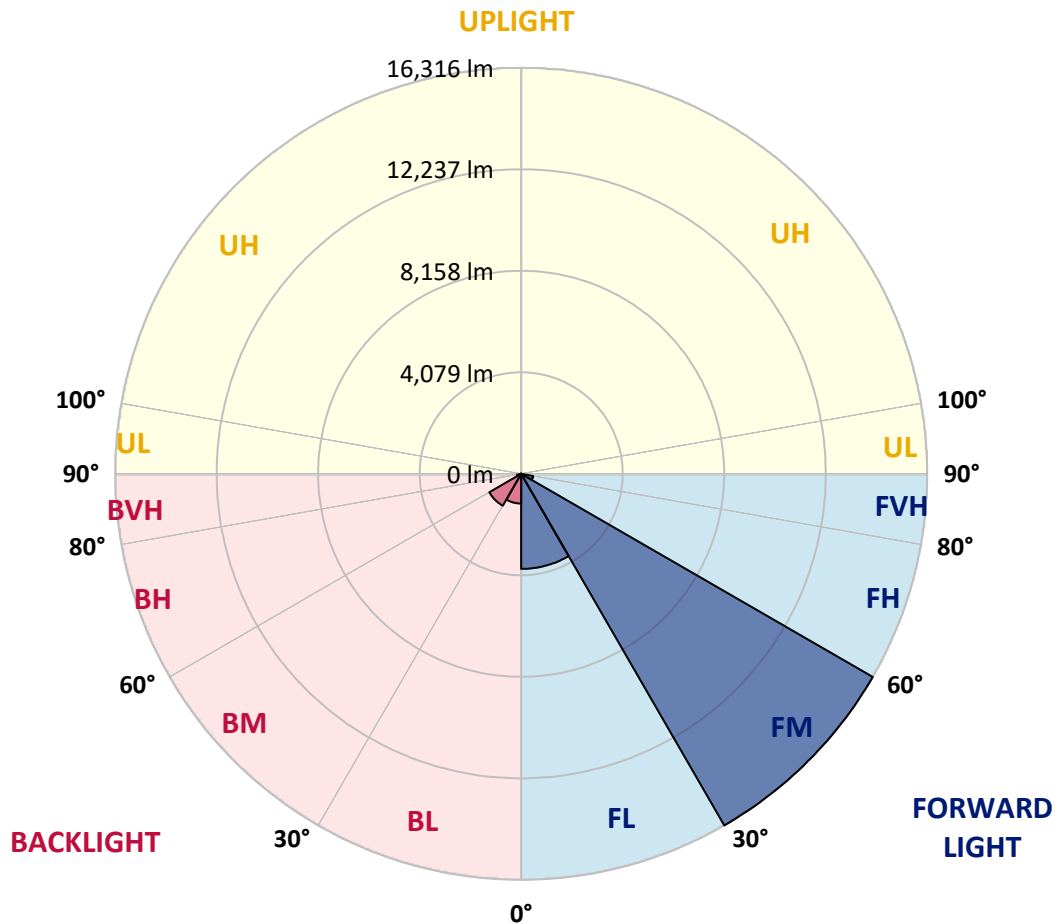
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3819.8	16.3			
FM	(30°-60°)	16316.1	69.4			
FH	(60°-80°)	485.7	2.1			G0/660
FVH	(80°-90°)	11.7	0.0			G1/100
BL	(0°-30°)	1195.0	5.1	B3/2500		
BM	(30°-60°)	1480.0	6.3	B2/2500		
BH	(60°-80°)	172.6	0.7	B1/500		G1/500
BVH	(80°-90°)	12.9	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°	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7
2.5°	8223.1	8034.8	8051.9	7928.6	7856.7	7740.2	7582.7	7551.8	7380.6	7147.7	6911.4
5°	8962.9	8918.4	8976.6	8798.5	8805.4	8613.6	8243.7	8250.5	7856.7	7476.5	7110.0
7.5°	9010.8	8908.1	8966.3	9123.9	9216.3	9182.1	8973.2	8791.7	8418.3	7860.1	7325.8
10°	8069.0	8264.2	8325.9	8586.2	8956.0	9346.5	9322.5	9332.8	9021.1	8291.6	7510.8
12.5°	7503.9	7373.8	7582.7	7740.2	8298.5	9055.4	9401.3	9476.6	9500.6	8709.5	7695.7
15°	7247.0	7247.0	7281.3	7325.8	7729.9	8428.6	9134.1	9353.3	9870.5	9257.4	7986.8
17.5°	7408.0	7401.2	7449.1	7356.6	7507.3	8045.0	8887.6	9137.6	10284.9	9795.1	8216.3
20°	7897.8	7921.7	7890.9	7623.8	7634.0	8038.2	8613.6	9007.4	10565.7	10260.9	8521.1
22.5°	8579.3	8593.0	8418.3	8127.2	8041.6	8240.2	8771.1	9072.5	10791.8	10819.2	8613.6
25°	9367.0	9312.2	9278.0	8867.0	8606.7	8778.0	9127.3	9302.0	10932.2	11298.7	8877.3
27.5°	10459.6	10350.0	10141.1	9774.6	9582.8	9339.6	9589.6	9877.3	11332.9	11969.9	9165.0
30°	12072.7	11976.8	11569.2	11096.6	10593.1	10353.4	10432.2	10589.7	12055.6	12747.4	9545.1
32.5°	14500.9	14298.9	13709.8	12809.0	12124.1	11463.1	11442.5	11610.3	12702.9	13822.8	9997.2
35°	17175.7	17114.1	16247.6	15319.5	13994.0	12973.4	12990.6	13079.6	13942.7	15233.8	10589.7
37.5°	18953.3	19292.3	18740.9	17744.3	16631.2	15172.2	14802.3	14833.1	15644.8	16905.2	11658.3
40°	20326.6	20038.9	20104.0	19871.1	19110.8	18117.6	17299.0	17138.1	17614.1	18754.6	12720.0
42.5°	19727.3	19741.0	20141.7	20693.1	20881.5	20809.5	19973.9	19669.1	19299.2	20268.4	13730.3
45°	18035.4	18388.2	18908.7	20367.7	21648.6	22850.8	22686.4	22179.5	20463.6	21467.1	14312.6
47.5°	15336.6	15322.9	16175.7	18073.1	20919.1	23734.4	24481.0	24124.8	21289.0	21333.5	14192.7
48°	14340.0	14586.5	15466.7	17699.8	20456.8	23604.2	24642.0	24193.3	21148.6	21155.5	14089.9
50°	10600.0	10555.5	11651.4	14391.3	18271.7	22179.5	23963.8	24313.2	21145.2	20254.7	13370.7
52.5°	5599.7	5791.5	6589.5	9048.5	12918.6	18151.8	21138.3	21682.9	20398.6	18782.0	12336.4
55°	2380.3	2150.8	2763.9	4085.9	7267.6	12127.5	15507.8	16720.2	17247.7	16620.9	10791.8
57.5°	849.4	928.1	1068.6	1537.8	3055.0	6637.4	9247.2	10189.0	11949.4	12196.0	7353.2
60°	544.6	554.8	599.4	705.5	1147.3	2558.4	4387.3	5137.3	5935.3	6127.1	3431.7
62.5°	421.3	424.7	445.2	462.4	544.6	993.2	1647.4	1952.2	2027.5	1743.3	900.7
65°	352.8	356.2	363.0	363.0	387.0	465.8	575.4	633.6	616.5	609.6	510.3
67.5°	270.6	277.4	291.1	291.1	304.8	284.3	318.5	339.1	383.6	465.8	435.0
70°	212.3	215.8	226.0	232.9	232.9	205.5	229.5	250.0	280.8	345.9	342.5
72.5°	164.4	171.2	178.1	178.1	167.8	140.4	164.4	181.5	202.1	239.7	232.9
75°	126.7	126.7	130.1	106.2	82.2	71.9	99.3	119.9	150.7	157.5	130.1
77.5°	34.2	37.7	34.2	30.8	34.2	51.4	65.1	75.3	95.9	95.9	85.6
80°	0.0	3.4	10.3	20.5	34.2	47.9	58.2	65.1	75.3	82.2	78.8
82.5°	0.0	3.4	10.3	20.5	30.8	37.7	51.4	54.8	61.6	71.9	71.9
85°	0.0	3.4	6.8	13.7	20.5	24.0	24.0	20.5	20.5	17.1	13.7
87.5°	0.0	0.0	3.4	6.8	6.8	10.3	10.3	10.3	10.3	10.3	10.3
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°	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7	6784.7
2.5°	6818.9	6712.8	6551.8	6298.3	6055.2	5897.6	5746.9	5579.1	5486.6	5479.8	5428.4
5°	6901.1	6661.4	6277.8	5842.8	5377.1	4976.3	4572.2	4308.5	4072.2	3942.0	3918.1
7.5°	6945.6	6634.0	6014.1	5284.6	4490.0	3835.9	3383.8	3051.6	2921.4	2825.5	2822.1
10°	7038.1	6586.0	5620.2	4544.8	3561.9	2900.9	2589.2	2438.5	2366.6	2339.2	2298.1
12.5°	7106.6	6497.0	5216.1	3784.5	2815.2	2404.3	2267.3	2233.0	2236.4	2250.1	2233.0
15°	7202.5	6418.2	4671.5	3106.4	2363.2	2164.5	2164.5	2171.4	2219.3	2226.2	2222.7
17.5°	7195.7	6264.1	4109.8	2558.4	2089.2	2061.8	2072.0	2137.1	2167.9	2178.2	2154.2
20°	7277.9	6120.3	3531.0	2185.1	1935.1	1976.2	2044.7	2061.8	2099.4	2106.3	2078.9
22.5°	7253.9	5760.6	2993.3	1890.5	1818.6	1897.4	1965.9	1986.4	1976.2	1955.6	1952.2
25°	7209.4	5452.4	2500.2	1695.3	1733.0	1818.6	1883.7	1846.0	1825.5	1828.9	1832.3
27.5°	7130.6	5062.0	2092.6	1558.3	1616.5	1743.3	1739.8	1726.1	1746.7	1729.6	1746.7
30°	7116.9	4671.5	1757.0	1435.0	1530.9	1623.4	1630.2	1654.2	1678.2	1647.4	1678.2
32.5°	7137.4	4243.4	1517.2	1359.7	1479.5	1483.0	1558.3	1582.3	1565.2	1496.7	1503.5
35°	7295.0	3914.6	1342.6	1318.6	1397.3	1400.8	1472.7	1441.9	1366.5	1325.4	1349.4
37.5°	7627.2	3640.6	1260.4	1280.9	1287.8	1332.3	1335.7	1274.1	1280.9	1277.5	1291.2
40°	8051.9	3431.7	1202.1	1246.7	1239.8	1270.6	1147.3	1181.6	1212.4	1222.7	1229.5
42.5°	8343.0	3281.0	1164.5	1191.9	1178.2	1123.4	1054.9	1089.1	1113.1	1150.8	1157.6
45°	8473.1	3161.2	1119.9	1096.0	1096.0	996.6	969.2	976.1	1030.9	1072.0	1065.1
47.5°	8260.8	3044.7	1041.2	969.2	993.2	911.0	880.2	880.2	938.4	989.8	979.5
48°	8178.6	2996.8	1044.6	941.8	959.0	897.3	866.5	859.6	924.7	972.7	972.7
50°	7771.0	2818.7	955.5	866.5	832.2	825.4	804.8	811.7	852.8	897.3	897.3
52.5°	6976.5	2435.1	808.3	743.2	681.6	722.6	732.9	719.2	739.8	780.9	777.4
55°	5822.3	1870.0	647.3	616.5	568.5	613.1	633.6	616.5	595.9	626.8	626.8
57.5°	3729.7	1006.9	517.2	524.0	476.1	520.6	537.7	496.6	458.9	482.9	479.5
60°	1681.6	602.8	424.7	414.4	383.6	435.0	462.4	414.4	363.0	380.2	397.3
62.5°	630.2	428.1	321.9	315.1	308.2	356.2	369.9	332.2	280.8	291.1	294.5
65°	462.4	376.7	256.9	232.9	246.6	280.8	274.0	236.3	202.1	202.1	208.9
67.5°	393.9	328.8	208.9	181.5	181.5	184.9	171.2	150.7	140.4	147.3	154.1
70°	308.2	260.3	164.4	140.4	126.7	113.0	99.3	95.9	85.6	95.9	92.5
72.5°	198.6	174.7	126.7	106.2	95.9	78.8	65.1	61.6	51.4	47.9	47.9
75°	106.2	106.2	99.3	85.6	75.3	61.6	51.4	41.1	27.4	20.5	20.5
77.5°	75.3	82.2	89.0	82.2	68.5	51.4	41.1	27.4	13.7	6.8	6.8
80°	71.9	82.2	89.0	78.8	68.5	51.4	37.7	20.5	10.3	3.4	3.4
82.5°	65.1	75.3	82.2	71.9	61.6	44.5	34.2	20.5	10.3	3.4	3.4
85°	13.7	17.1	20.5	20.5	24.0	30.8	24.0	17.1	6.8	3.4	3.4
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	6.8	6.8	3.4	3.4	3.4
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)