

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: P531151

Luminaire Tested: **GALN-SA6B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15817 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

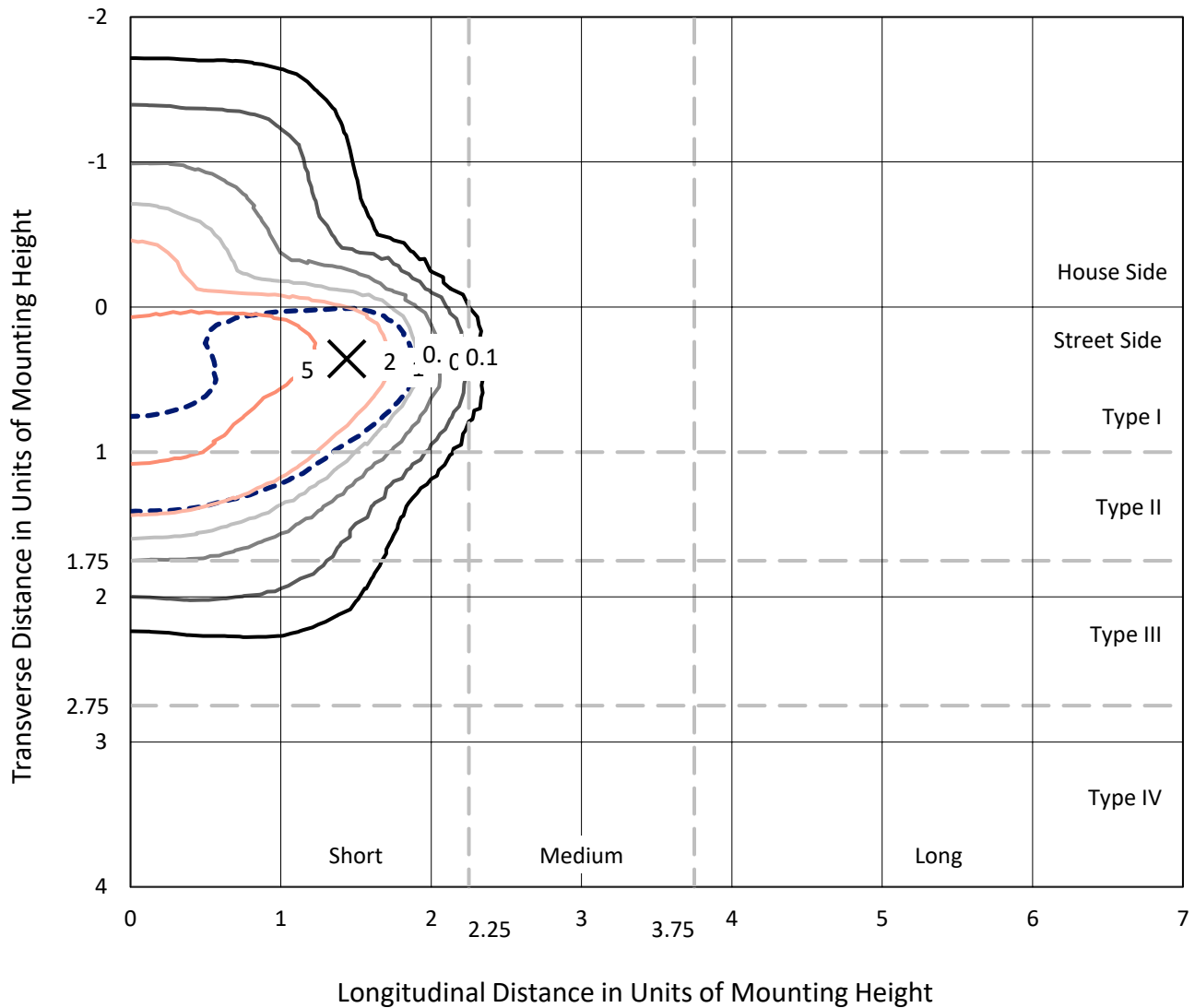
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

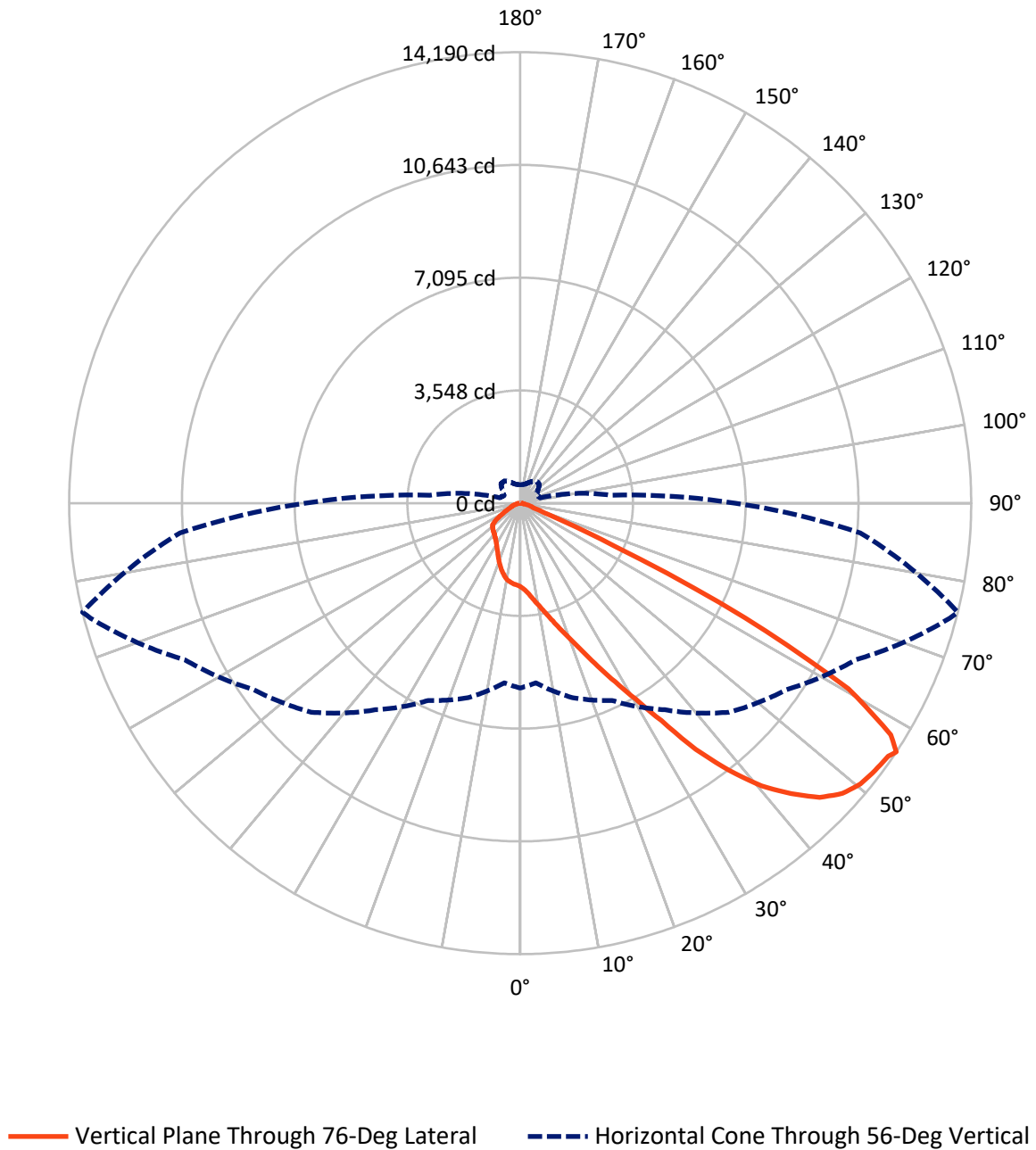
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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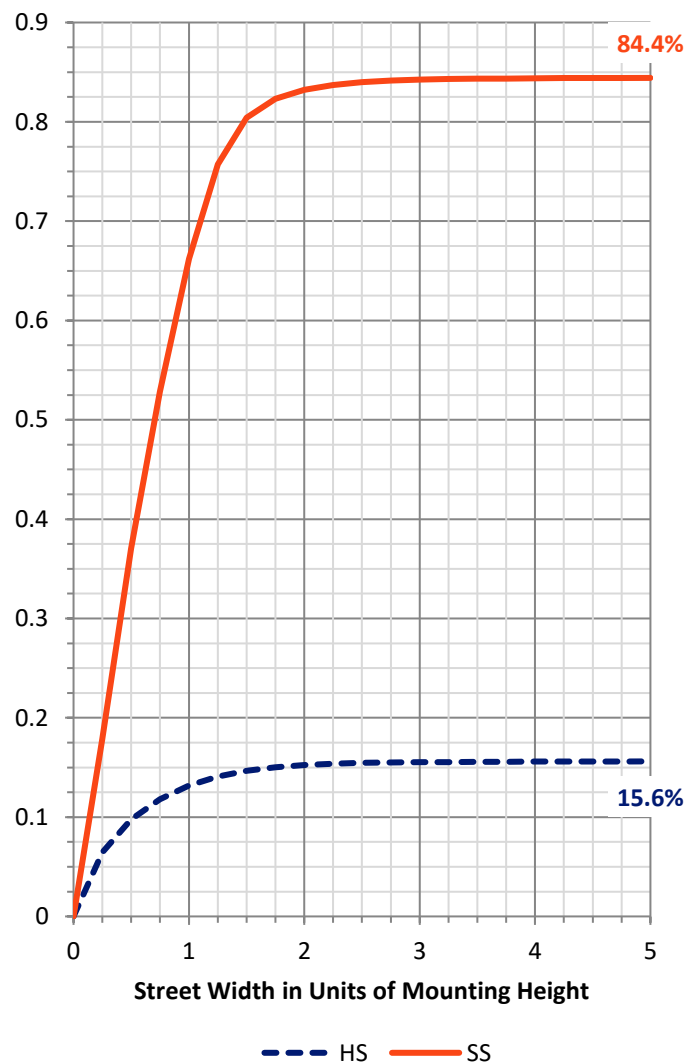
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2484.8	0.0	2484.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	13332.2	0.0	13332.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	15817.0	0.0	15817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.7
10°-20°	852.0	5.4
20°-30°	1545.0	9.8
30°-40°	2664.4	16.8
40°-50°	4328.4	27.4
50°-60°	4562.2	28.8
60°-70°	1394.0	8.8
70°-80°	178.7	1.1
80°-90°	27.2	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°	15817.0	100.0
0°-180°	15817.0	100.0

Coefficient of Utilization



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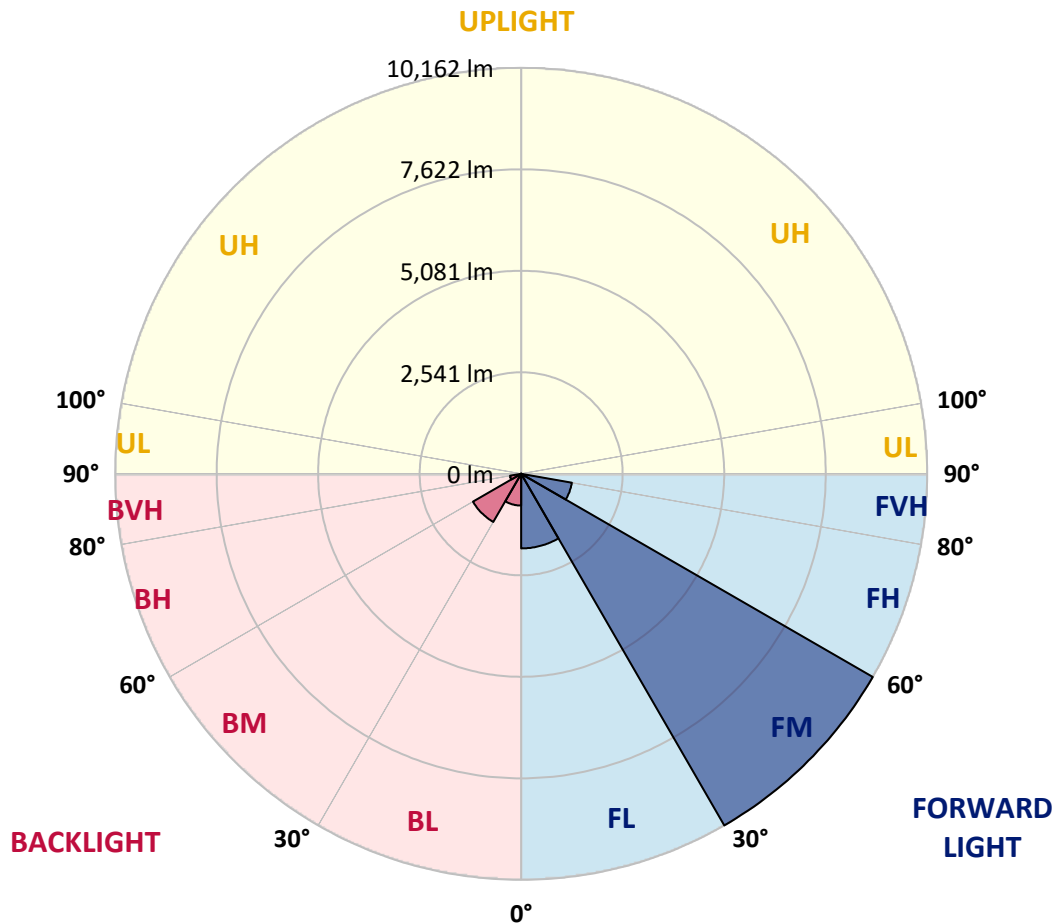
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1867.3	11.8			
FM	(30°-60°)	10162.4	64.2			
FH	(60°-80°)	1289.2	8.2			G1/1800
FVH	(80°-90°)	13.3	0.1			G1/100
BL	(0°-30°)	794.9	5.0	B2/1000		
BM	(30°-60°)	1392.6	8.8	B2/2500		
BH	(60°-80°)	283.5	1.8	B1/500		G1/500
BVH	(80°-90°)	13.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8
2.5°	3032.2	2962.2	2965.1	2959.3	2950.6	2918.5	2822.3	2807.7	2743.6	2726.1	2667.8
5°	3396.6	3335.4	3370.4	3317.9	3268.4	3239.2	3081.8	3008.9	2906.8	2868.9	2787.3
7.5°	3624.1	3594.9	3583.2	3586.2	3539.5	3466.6	3396.6	3236.3	3099.3	3070.1	2898.1
10°	3734.9	3717.4	3734.9	3726.1	3746.5	3755.3	3632.8	3536.6	3335.4	3285.9	3017.6
12.5°	3761.1	3796.1	3810.7	3848.6	3898.1	3982.7	3973.9	3842.7	3574.5	3542.4	3201.3
15°	3825.2	3854.4	3839.8	3901.0	3994.3	4137.2	4213.0	4192.6	3904.0	3845.6	3414.1
17.5°	3883.5	3831.1	3880.6	4003.1	4096.4	4315.0	4498.7	4583.3	4262.6	4195.5	3609.5
20°	3962.3	3947.7	3938.9	4000.2	4166.4	4457.9	4822.4	4976.9	4664.9	4594.9	3889.4
22.5°	4201.3	4204.3	4198.4	4108.0	4227.6	4557.0	5105.2	5487.1	5146.0	5087.7	4207.2
25°	4516.2	4478.3	4449.2	4376.3	4361.7	4647.4	5390.9	6111.0	5723.3	5682.5	4551.2
27.5°	4848.6	4848.6	4761.1	4694.1	4600.8	4871.9	5653.3	6717.5	6420.1	6364.7	4851.5
30°	5210.1	5230.5	5218.9	5076.0	5017.7	5116.8	5921.5	7493.0	7219.0	7149.0	5347.2
32.5°	5743.7	5699.9	5749.5	5630.0	5458.0	5545.4	6344.3	8186.9	8256.9	8157.8	5997.3
35°	6449.2	6423.0	6390.9	6195.6	5991.5	6061.5	6942.0	9041.2	9560.2	9510.6	6653.3
37.5°	7081.9	7067.4	7041.1	6907.0	6670.8	6755.4	7621.3	9930.4	10831.4	10668.1	7580.5
40°	7746.7	7825.4	7740.8	7621.3	7405.6	7592.2	8420.2	10458.2	11901.4	11703.1	8289.0
42.5°	8647.6	8586.4	8624.3	8405.6	8289.0	8493.1	9222.0	10985.9	12732.3	12496.2	9041.2
45°	9606.8	9609.7	9507.7	9437.7	9134.5	9356.1	9714.7	11277.4	13394.1	13210.5	9609.7
47.5°	10222.0	10219.1	10329.9	10440.7	10128.7	9910.0	10050.0	11554.4	13735.3	13650.7	9816.7
50°	10125.8	10154.9	10297.8	10711.8	10875.1	10580.6	10364.9	11472.8	13889.8	13881.0	9994.6
52.5°	8807.9	8904.2	9143.2	9740.9	10563.1	10927.6	10694.3	11624.4	13965.6	13980.2	10259.9
55°	6705.8	6758.3	7213.1	7939.1	8848.8	10096.6	10563.1	11743.9	14023.9	14050.2	10580.6
56°	5816.6	5676.6	6332.6	6848.7	7936.2	9300.7	10230.7	11650.6	13988.9	14190.1	10741.0
57.5°	4390.9	4297.6	4828.2	5472.5	6519.2	7959.5	9198.6	11210.4	13752.8	13749.8	10510.6
60°	2670.7	2577.4	2985.5	3364.6	3950.6	4901.1	6216.0	8927.5	11627.3	11872.2	8510.6
62.5°	1589.0	1647.3	2049.6	2280.0	2469.5	2568.6	3215.9	5306.3	7758.3	7933.3	5280.1
65°	1058.4	1078.8	1382.0	1761.0	1845.6	1469.4	1309.1	2148.8	3364.6	3256.7	2177.9
67.5°	653.1	699.7	927.2	1323.7	1466.5	1072.9	621.0	801.8	927.2	927.2	629.8
70°	396.5	419.8	618.1	900.9	1005.9	691.0	451.9	451.9	446.1	437.3	376.1
72.5°	189.5	204.1	314.9	463.6	472.3	364.4	349.9	381.9	373.2	370.3	312.0
75°	81.6	87.5	110.8	145.8	166.2	154.5	212.8	274.1	282.8	274.1	224.5
77.5°	26.2	29.2	40.8	52.5	55.4	67.1	90.4	113.7	131.2	122.5	110.8
80°	2.9	5.8	11.7	26.2	40.8	52.5	67.1	75.8	84.6	84.6	78.7
82.5°	2.9	2.9	11.7	23.3	37.9	49.6	64.1	72.9	84.6	87.5	81.6
85°	0.0	2.9	8.7	20.4	32.1	32.1	29.2	29.2	20.4	20.4	20.4
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8	2632.8
2.5°	2656.1	2650.3	2571.5	2522.0	2495.7	2443.3	2411.2	2387.9	2370.4	2350.0	2352.9
5°	2691.1	2670.7	2539.5	2449.1	2341.2	2282.9	2233.3	2192.5	2166.3	2160.4	2148.8
7.5°	2790.2	2682.3	2484.1	2320.8	2183.8	2125.5	2081.7	2055.5	2067.1	2040.9	2061.3
10°	2866.0	2705.7	2417.0	2180.8	2043.8	2000.1	1976.8	1997.2	2026.3	2014.7	2000.1
12.5°	2959.3	2729.0	2309.1	2046.7	1918.4	1886.4	1927.2	1965.1	2023.4	2046.7	2017.6
15°	3064.3	2755.2	2172.1	1892.2	1810.6	1836.8	1906.8	1973.8	2032.2	2061.3	2078.8
17.5°	3192.6	2746.5	2038.0	1769.8	1708.5	1784.3	1868.9	1930.1	2017.6	2061.3	2049.6
20°	3312.1	2717.3	1889.3	1647.3	1650.2	1720.2	1790.2	1889.3	1935.9	1994.3	1973.8
22.5°	3425.8	2664.8	1734.8	1562.7	1562.7	1670.6	1705.6	1769.8	1810.6	1839.7	1836.8
25°	3586.2	2565.7	1606.5	1481.1	1516.1	1586.1	1615.2	1635.6	1618.1	1641.5	1644.4
27.5°	3699.9	2463.7	1501.5	1408.2	1472.4	1524.8	1516.1	1504.4	1463.6	1431.5	1452.0
30°	3822.3	2344.1	1411.1	1358.7	1393.6	1440.3	1405.3	1370.3	1306.2	1253.7	1256.6
32.5°	3997.3	2288.7	1332.4	1300.3	1347.0	1352.8	1314.9	1262.4	1198.3	1148.7	1145.8
35°	4323.8	2253.7	1265.4	1262.4	1271.2	1274.1	1236.2	1172.1	1145.8	1105.0	1119.6
37.5°	4650.3	2236.2	1218.7	1207.0	1204.1	1207.0	1163.3	1102.1	1151.7	1148.7	1154.6
40°	5067.3	2315.0	1151.7	1137.1	1140.0	1140.0	1084.6	1067.1	1154.6	1163.3	1166.2
42.5°	5490.0	2414.1	1107.9	1061.3	1072.9	1072.9	1043.8	1023.4	1084.6	1026.3	1017.5
45°	5857.4	2559.9	1061.3	985.5	1014.6	1029.2	1020.5	985.5	947.6	848.4	848.4
47.5°	5976.9	2688.2	1005.9	912.6	935.9	1000.0	973.8	900.9	833.9	752.2	746.4
50°	6186.8	2828.1	962.1	828.0	877.6	956.3	930.1	857.2	781.4	723.1	726.0
52.5°	6402.6	2988.5	880.5	728.9	790.1	921.3	921.3	839.7	723.1	682.2	676.4
55°	6726.2	2982.6	734.7	597.7	705.6	868.8	883.4	752.2	647.3	615.2	615.2
56°	6772.9	2848.5	661.8	559.8	667.7	854.3	857.2	728.9	618.1	583.1	583.1
57.5°	6423.0	2571.5	580.2	513.1	621.0	828.0	830.9	708.5	594.8	545.2	539.4
60°	4941.9	1740.6	484.0	457.7	562.7	746.4	761.0	644.3	521.9	484.0	481.1
62.5°	2790.2	965.1	425.7	414.0	484.0	635.6	679.3	562.7	443.2	422.8	428.6
65°	1274.1	530.6	358.6	335.3	390.7	489.8	548.1	463.6	364.4	341.1	341.1
67.5°	466.5	361.5	306.1	265.3	274.1	317.8	355.7	300.3	242.0	207.0	215.8
70°	332.4	303.2	268.2	230.3	212.8	207.0	204.1	169.1	119.5	93.3	99.1
72.5°	268.2	250.7	224.5	195.3	166.2	139.9	119.5	87.5	55.4	37.9	35.0
75°	192.4	183.7	163.3	139.9	116.6	99.1	81.6	55.4	29.2	14.6	14.6
77.5°	99.1	99.1	96.2	87.5	72.9	58.3	46.6	32.1	17.5	5.8	5.8
80°	75.8	81.6	84.6	75.8	67.1	52.5	37.9	23.3	11.7	2.9	2.9
82.5°	72.9	84.6	90.4	78.7	67.1	49.6	37.9	23.3	11.7	2.9	2.9
85°	17.5	17.5	26.2	29.2	37.9	40.8	32.1	20.4	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)