

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: P531139

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531139
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-SA6B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 20002 lumens
Efficiency: N/A
Efficacy: 82.3 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): 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

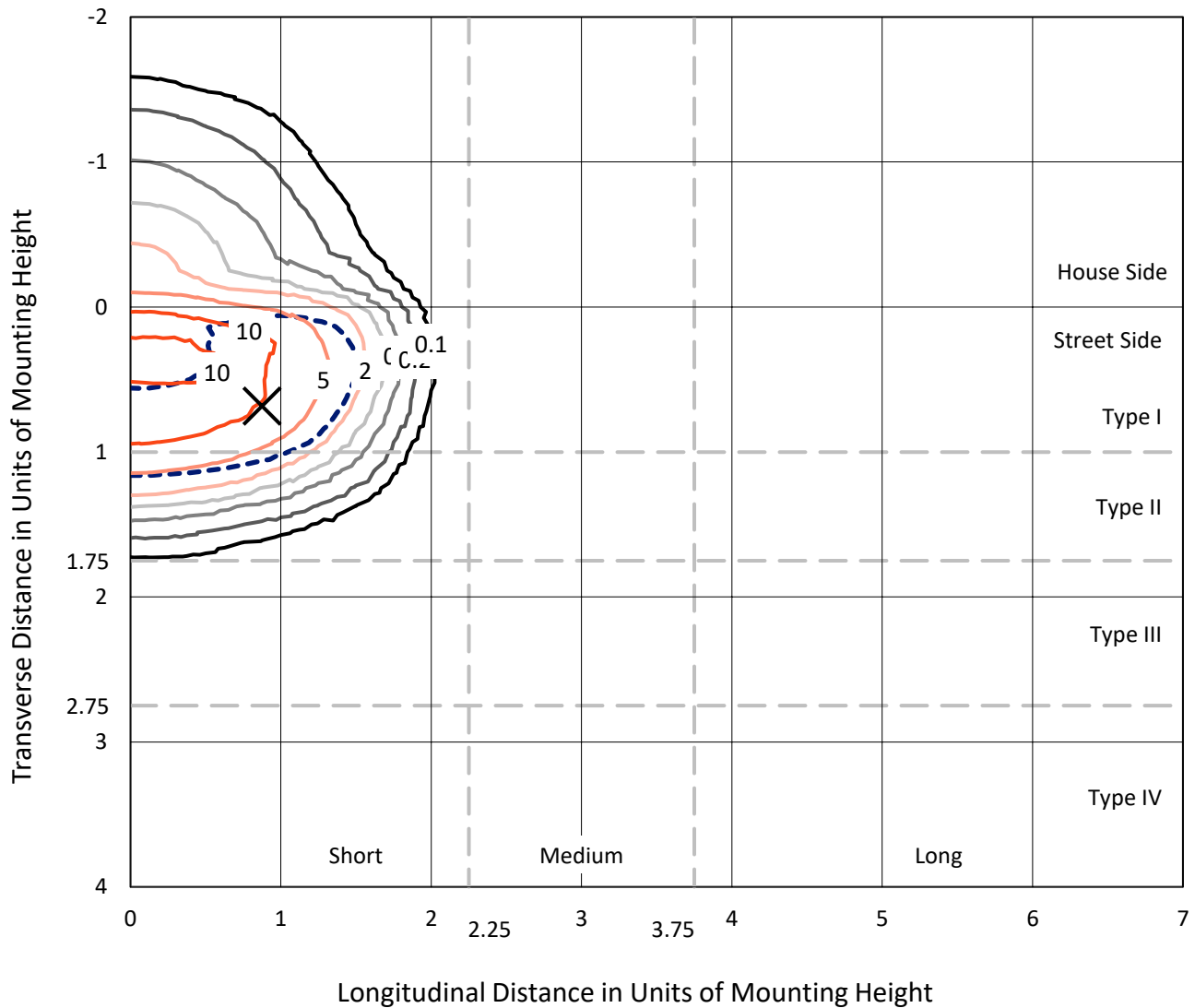


REPORT NUMBER: P531139

CATALOG NUMBER: GALN-SA6B-830-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

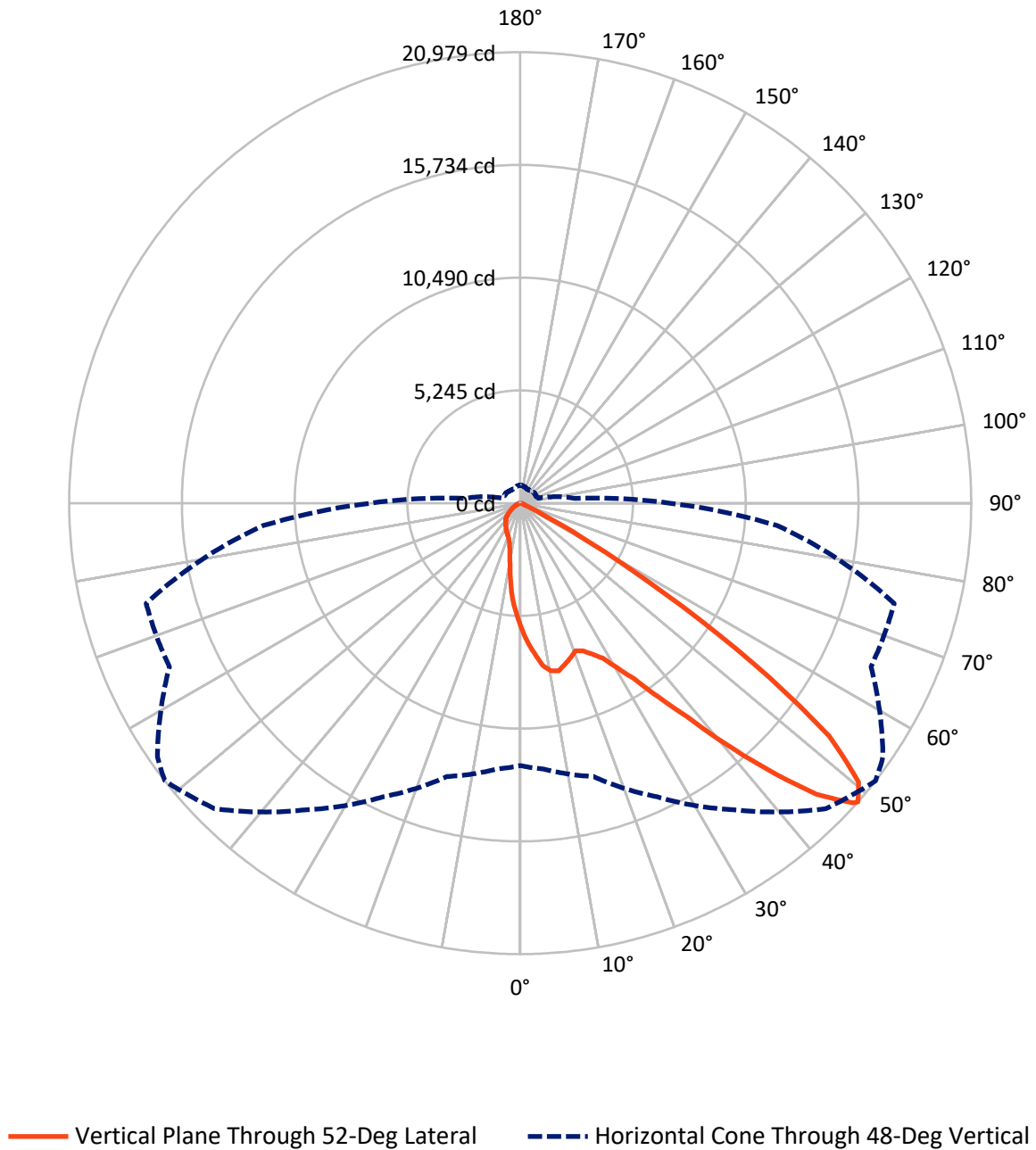


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531139

CATALOG NUMBER: GALN-SA6B-830-U-AFL-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2435.4	0.0	2435.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17566.6	0.0	17566.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	20002.0	0.0	20002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.7	2.6
10°-20°	1381.7	6.9
20°-30°	2359.1	11.8
30°-40°	4344.2	21.7
40°-50°	6746.6	33.7
50°-60°	4060.3	20.3
60°-70°	469.6	2.3
70°-80°	90.9	0.5
80°-90°	21.0	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°	20002.0	100.0
0°-180°	20002.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531139

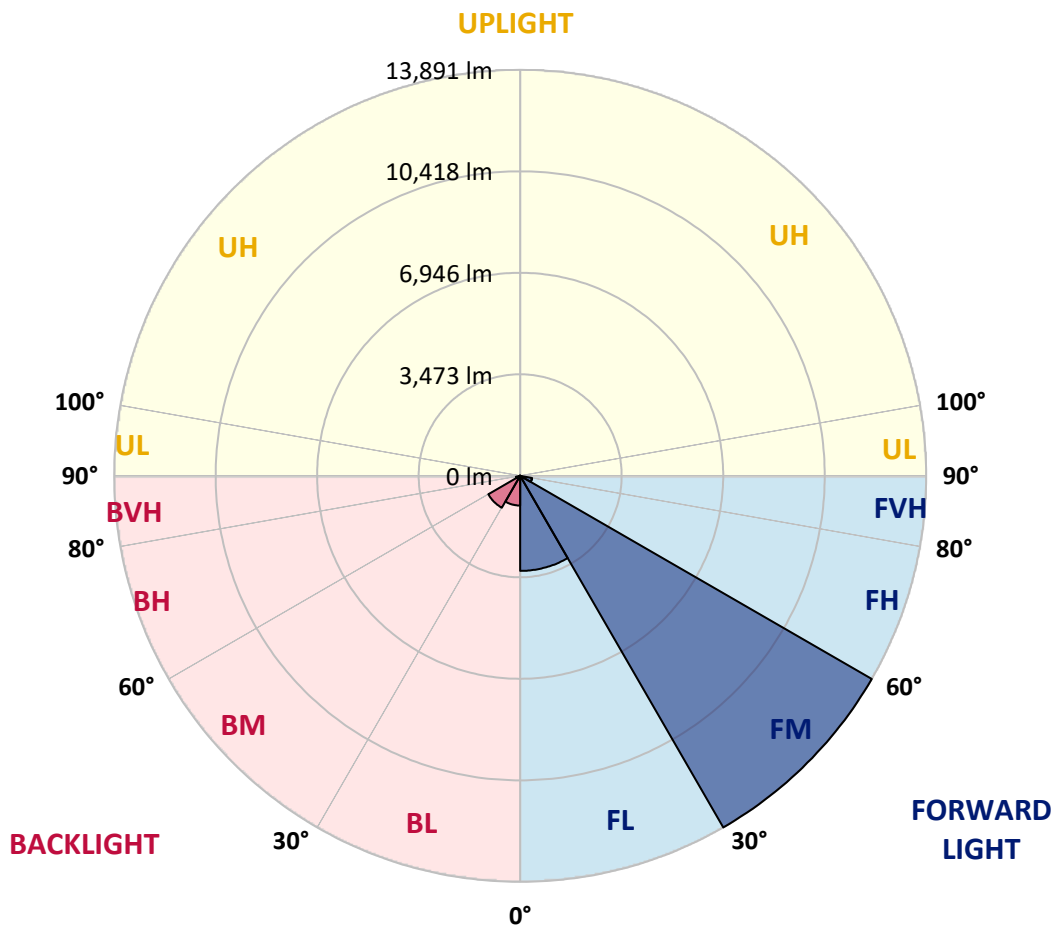
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3252.1	16.3			
FM	(30°-60°)	13891.0	69.4			
FH	(60°-80°)	413.5	2.1			G0/660
FVH	(80°-90°)	10.0	0.0			G0/10
BL	(0°-30°)	1017.3	5.1	B3/2500		
BM	(30°-60°)	1260.0	6.3	B2/2500		
BH	(60°-80°)	147.0	0.7	B1/500		G1/500
BVH	(80°-90°)	11.0	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



REPORT NUMBER: P531139

CATALOG NUMBER: GALN-SA6B-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2
2.5°	7000.9	6840.5	6855.1	6750.1	6688.9	6589.8	6455.6	6429.4	6283.6	6085.3	5884.1
5°	7630.7	7592.8	7642.4	7490.7	7496.6	7333.3	7018.4	7024.2	6688.9	6365.2	6053.2
7.5°	7671.5	7584.1	7633.6	7767.8	7846.5	7817.3	7639.5	7484.9	7167.1	6691.8	6236.9
10°	6869.7	7035.9	7088.4	7310.0	7624.9	7957.3	7936.9	7945.6	7680.3	7059.2	6394.4
12.5°	6388.6	6277.8	6455.6	6589.8	7065.0	7709.4	8003.9	8068.1	8088.5	7414.9	6551.9
15°	6169.9	6169.9	6199.0	6236.9	6581.0	7175.8	7776.5	7963.1	8403.4	7881.5	6799.7
17.5°	6306.9	6301.1	6341.9	6263.2	6391.5	6849.3	7566.6	7779.4	8756.2	8339.3	6995.1
20°	6723.9	6744.3	6718.1	6490.6	6499.4	6843.4	7333.3	7668.6	8995.3	8735.8	7254.6
22.5°	7304.1	7315.8	7167.1	6919.2	6846.4	7015.5	7467.4	7724.0	9187.8	9211.1	7333.3
25°	7974.8	7928.1	7899.0	7549.1	7327.5	7473.3	7770.7	7919.4	9307.3	9619.3	7557.8
27.5°	8904.9	8811.6	8633.8	8321.8	8158.5	7951.4	8164.3	8409.2	9648.5	10190.8	7802.7
30°	10278.3	10196.6	9849.7	9447.3	9018.6	8814.5	8881.6	9015.7	10263.7	10852.7	8126.4
32.5°	12345.6	12173.6	11672.0	10905.2	10322.0	9759.3	9741.8	9884.6	10814.8	11768.3	8511.3
35°	14622.9	14570.4	13832.7	13042.5	11914.1	11045.1	11059.7	11135.5	11870.3	12969.6	9015.7
37.5°	16136.2	16424.8	15955.4	15106.9	14159.2	12917.1	12602.2	12628.4	13319.5	14392.5	9925.5
40°	17305.4	17060.5	17115.9	16917.6	16270.3	15424.7	14727.8	14590.8	14996.1	15967.0	10829.4
42.5°	16795.1	16806.8	17148.0	17617.4	17777.8	17716.5	17005.1	16745.6	16430.7	17255.8	11689.5
45°	15354.7	15655.1	16098.3	17340.4	18430.9	19454.4	19314.4	18882.9	17422.0	18276.4	12185.2
47.5°	13057.1	13045.4	13771.4	15386.8	17809.8	20206.7	20842.3	20539.1	18124.8	18162.7	12083.2
48°	12208.6	12418.5	13167.9	15069.0	17416.2	20095.9	20979.3	20597.4	18005.2	18011.0	11995.7
50°	9024.5	8986.6	9919.6	12252.3	15555.9	18882.9	20402.0	20699.4	18002.3	17244.2	11383.4
52.5°	4767.4	4930.7	5610.0	7703.6	10998.5	15453.9	17996.5	18460.1	17366.6	15990.4	10502.8
55°	2026.5	1831.1	2353.1	3478.6	6187.4	10324.9	13202.8	14235.0	14684.1	14150.5	9187.8
57.5°	723.1	790.2	909.7	1309.2	2600.9	5650.9	7872.7	8674.6	10173.3	10383.2	6260.3
60°	463.6	472.4	510.3	600.7	976.8	2178.1	3735.2	4373.7	5053.1	5216.4	2921.7
62.5°	358.6	361.6	379.1	393.6	463.6	845.6	1402.5	1662.0	1726.2	1484.2	766.9
65°	300.3	303.2	309.1	309.1	329.5	396.6	489.9	539.4	524.8	519.0	434.5
67.5°	230.4	236.2	247.8	247.8	259.5	242.0	271.2	288.7	326.6	396.6	370.3
70°	180.8	183.7	192.4	198.3	198.3	174.9	195.4	212.9	239.1	294.5	291.6
72.5°	140.0	145.8	151.6	151.6	142.9	119.5	140.0	154.5	172.0	204.1	198.3
75°	107.9	107.9	110.8	90.4	70.0	61.2	84.6	102.1	128.3	134.1	110.8
77.5°	29.2	32.1	29.2	26.2	29.2	43.7	55.4	64.1	81.6	81.6	72.9
80°	0.0	2.9	8.7	17.5	29.2	40.8	49.6	55.4	64.1	70.0	67.1
82.5°	0.0	2.9	8.7	17.5	26.2	32.1	43.7	46.7	52.5	61.2	61.2
85°	0.0	2.9	5.8	11.7	17.5	20.4	20.4	17.5	17.5	14.6	11.7
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P531139

CATALOG NUMBER: GALN-SA6B-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2	5776.2
2.5°	5805.4	5715.0	5578.0	5362.2	5155.2	5021.0	4892.8	4749.9	4671.1	4665.3	4621.6
5°	5875.4	5671.3	5344.7	4974.4	4577.8	4236.7	3892.6	3668.1	3466.9	3356.1	3335.7
7.5°	5913.3	5647.9	5120.2	4499.1	3822.6	3265.7	2880.8	2598.0	2487.2	2405.6	2402.6
10°	5992.0	5607.1	4784.9	3869.3	3032.5	2469.7	2204.4	2076.1	2014.8	1991.5	1956.5
12.5°	6050.3	5531.3	4440.8	3222.0	2396.8	2046.9	1930.3	1901.1	1904.0	1915.7	1901.1
15°	6132.0	5464.3	3977.2	2644.7	2011.9	1842.8	1842.8	1848.6	1889.5	1895.3	1892.4
17.5°	6126.1	5333.0	3499.0	2178.1	1778.7	1755.3	1764.1	1819.5	1845.7	1854.5	1834.1
20°	6196.1	5210.6	3006.2	1860.3	1647.4	1682.4	1740.7	1755.3	1787.4	1793.2	1769.9
22.5°	6175.7	4904.4	2548.4	1609.5	1548.3	1615.4	1673.7	1691.2	1682.4	1664.9	1662.0
25°	6137.8	4642.0	2128.6	1443.3	1475.4	1548.3	1603.7	1571.6	1554.1	1557.0	1560.0
27.5°	6070.7	4309.6	1781.6	1326.7	1376.3	1484.2	1481.2	1469.6	1487.1	1472.5	1487.1
30°	6059.1	3977.2	1495.8	1221.7	1303.4	1382.1	1387.9	1408.3	1428.8	1402.5	1428.8
32.5°	6076.6	3612.7	1291.7	1157.6	1259.6	1262.6	1326.7	1347.1	1332.5	1274.2	1280.0
35°	6210.7	3332.8	1143.0	1122.6	1189.7	1192.6	1253.8	1227.6	1163.4	1128.4	1148.8
37.5°	6493.5	3099.5	1073.0	1090.5	1096.3	1134.3	1137.2	1084.7	1090.5	1087.6	1099.3
40°	6855.1	2921.7	1023.5	1061.4	1055.5	1081.8	976.8	1006.0	1032.2	1040.9	1046.8
42.5°	7102.9	2793.4	991.4	1014.7	1003.0	956.4	898.1	927.2	947.6	979.7	985.5
45°	7213.7	2691.3	953.5	933.1	933.1	848.5	825.2	831.0	877.7	912.7	906.8
47.5°	7033.0	2592.2	886.4	825.2	845.6	775.6	749.4	749.4	798.9	842.7	833.9
48°	6963.0	2551.3	889.3	801.9	816.4	763.9	737.7	731.9	787.3	828.1	828.1
50°	6616.0	2399.7	813.5	737.7	708.5	702.7	685.2	691.1	726.0	763.9	763.9
52.5°	5939.5	2073.2	688.1	632.7	580.2	615.2	624.0	612.3	629.8	664.8	661.9
55°	4956.9	1592.0	551.1	524.8	484.0	521.9	539.4	524.8	507.4	533.6	533.6
57.5°	3175.3	857.3	440.3	446.1	405.3	443.2	457.8	422.8	390.7	411.1	408.2
60°	1431.7	513.2	361.6	352.8	326.6	370.3	393.6	352.8	309.1	323.7	338.2
62.5°	536.5	364.5	274.1	268.3	262.4	303.2	314.9	282.8	239.1	247.8	250.8
65°	393.6	320.7	218.7	198.3	209.9	239.1	233.3	201.2	172.0	172.0	177.9
67.5°	335.3	279.9	177.9	154.5	154.5	157.5	145.8	128.3	119.5	125.4	131.2
70°	262.4	221.6	140.0	119.5	107.9	96.2	84.6	81.6	72.9	81.6	78.7
72.5°	169.1	148.7	107.9	90.4	81.6	67.1	55.4	52.5	43.7	40.8	40.8
75°	90.4	90.4	84.6	72.9	64.1	52.5	43.7	35.0	23.3	17.5	17.5
77.5°	64.1	70.0	75.8	70.0	58.3	43.7	35.0	23.3	11.7	5.8	5.8
80°	61.2	70.0	75.8	67.1	58.3	43.7	32.1	17.5	8.7	2.9	2.9
82.5°	55.4	64.1	70.0	61.2	52.5	37.9	29.2	17.5	8.7	2.9	2.9
85°	11.7	14.6	17.5	17.5	20.4	26.2	20.4	14.6	5.8	2.9	2.9
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	2.9	2.9	2.9
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)