

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: P531153

Luminaire Tested: **GALN-SA6B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17733 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - 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



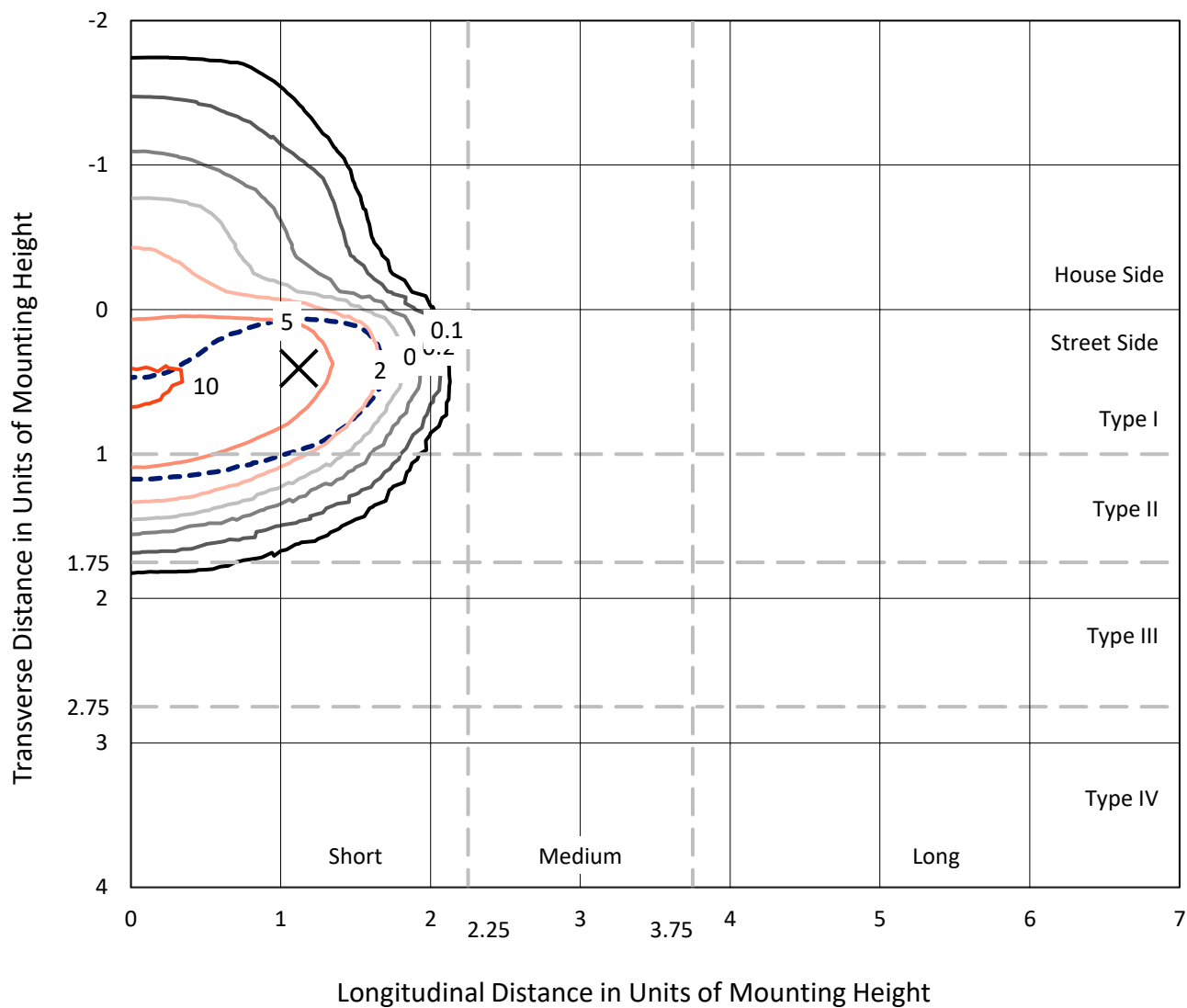
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



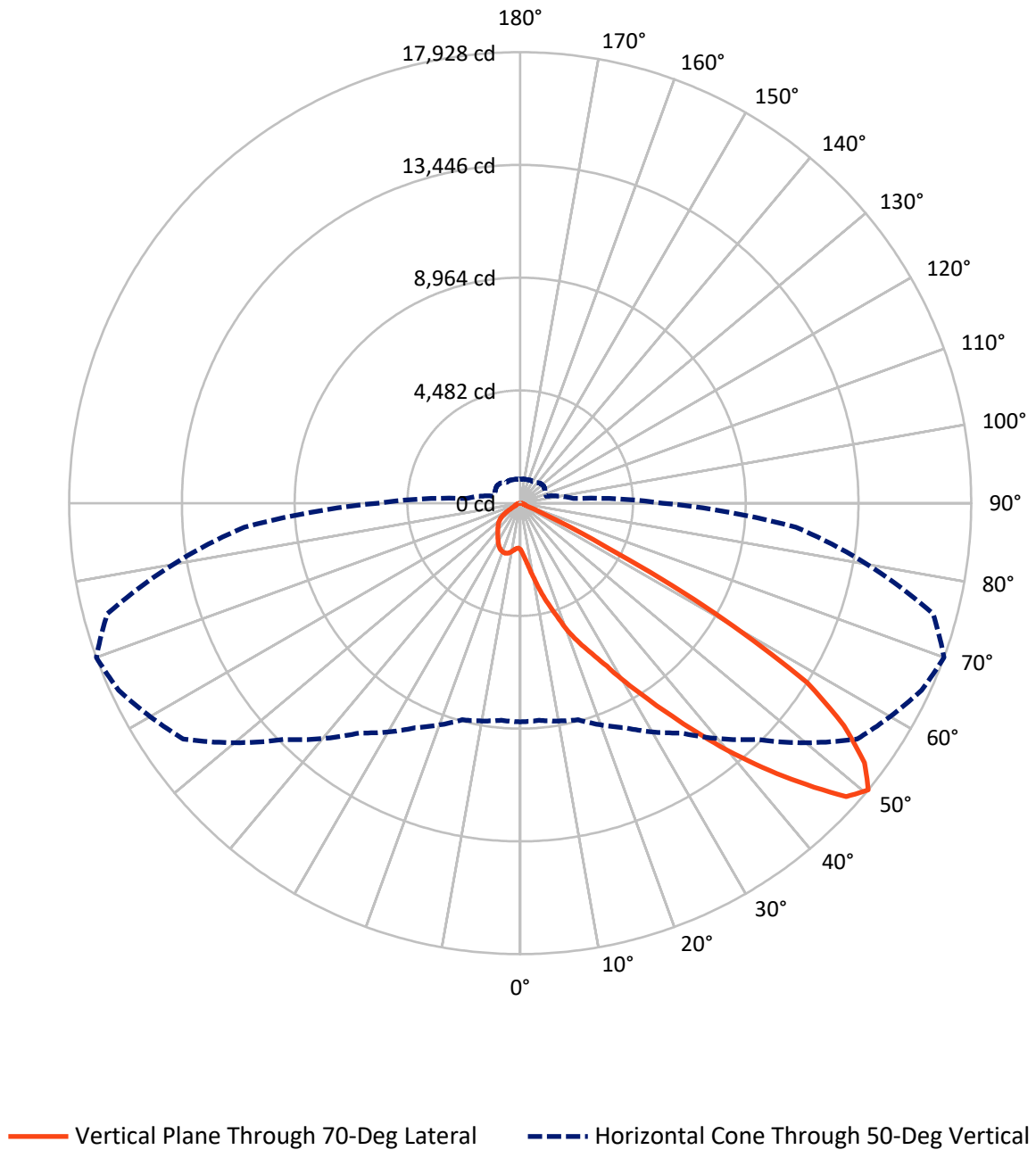
Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.5	0.0	2476.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15256.5	0.0	15256.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	17733.0	0.0	17733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	1.3
10°-20°	1033.2	5.8
20°-30°	2167.4	12.2
30°-40°	3735.9	21.1
40°-50°	5460.0	30.8
50°-60°	4252.5	24.0
60°-70°	720.5	4.1
70°-80°	99.0	0.6
80°-90°	25.6	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°	17733.0	100.0
0°-180°	17733.0	100.0

Coefficient of Utilization



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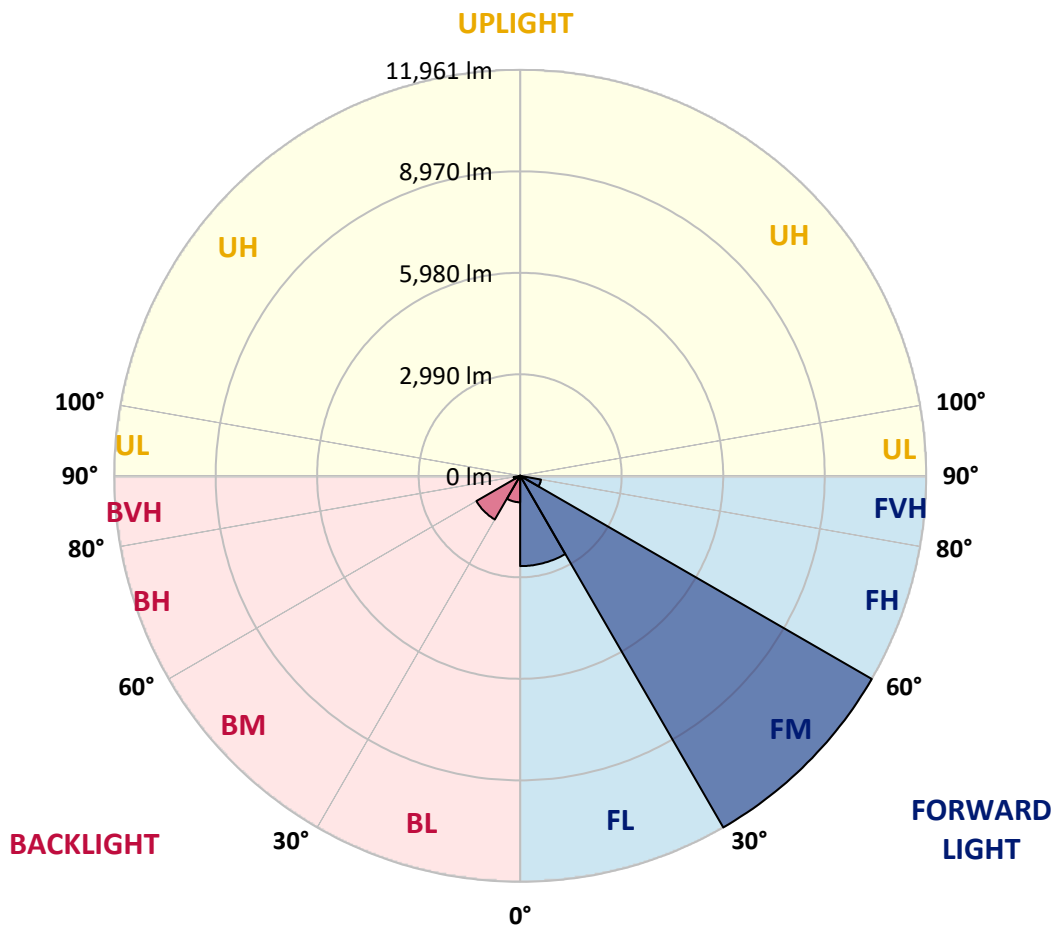
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2660.2	15.0			
FM	(30°-60°)	11960.6	67.4			
FH	(60°-80°)	623.8	3.5			G0/660
FVH	(80°-90°)	11.8	0.1			G1/100
BL	(0°-30°)	779.3	4.4	B2/1000		
BM	(30°-60°)	1487.8	8.4	B2/2500		
BH	(60°-80°)	195.6	1.1	B1/500		G1/500
BVH	(80°-90°)	13.8	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	2405.3	2387.8	2349.9	2280.0	2250.8	2180.8	2140.0	2061.3	2011.7	1956.3	1895.1
5°	3387.9	3297.5	3242.1	3163.4	2933.0	2790.2	2554.0	2352.8	2259.5	2157.5	2017.6
7.5°	4402.5	4344.2	4268.3	4099.2	3941.8	3644.4	3239.2	2796.0	2606.5	2431.6	2154.6
10°	5242.1	5078.9	5070.1	4944.8	4772.7	4417.0	3930.1	3379.1	3040.9	2784.3	2349.9
12.5°	5828.2	5679.5	5746.5	5731.9	5571.6	5245.1	4682.4	3953.5	3600.7	3201.3	2551.1
15°	6361.7	6300.5	6280.1	6262.6	6198.4	5956.4	5452.1	4653.2	4143.0	3661.9	2778.5
17.5°	6883.6	6726.1	6802.0	6816.5	6810.7	6592.0	6119.7	5317.9	4717.3	4148.8	3017.6
20°	7347.2	7361.7	7259.7	7239.3	7221.8	7213.0	6752.4	5976.9	5422.9	4659.0	3329.5
22.5°	7941.9	7839.9	7930.3	7872.0	7758.2	7688.3	7335.5	6560.0	6035.2	5274.2	3647.3
25°	8644.6	8726.2	8513.4	8490.0	8364.7	8122.7	7804.9	7213.0	6624.1	5845.7	3991.4
27.5°	9510.5	9367.6	9312.2	9183.9	8956.5	8854.5	8481.3	7886.5	7335.5	6446.3	4323.7
30°	10254.0	10216.0	9939.1	9787.5	9589.2	9586.3	9064.4	8799.1	8262.6	7388.0	4781.5
32.5°	10860.4	10694.2	10592.2	10487.2	10326.8	10370.6	9930.3	9790.4	9251.0	8262.6	5320.9
35°	11265.6	11146.1	11084.9	10924.5	10877.9	11073.2	10889.5	10831.2	10388.1	9493.0	5953.5
37.5°	11393.9	11431.8	11420.2	11219.0	11318.1	11845.8	12082.0	11930.4	11697.1	10790.4	6638.7
40°	11507.6	11533.9	11475.6	11711.7	11994.5	12595.1	13449.4	13198.6	13111.2	12105.3	7592.1
42.5°	11571.8	11551.4	11551.4	11959.5	12388.1	13595.2	14770.1	14603.9	14536.9	13504.8	8694.1
45°	11294.8	11096.5	11309.4	11863.3	12726.3	14087.9	15825.5	16055.9	15959.7	15169.5	9982.8
47.5°	10259.8	10382.2	10501.8	11242.3	12315.2	13936.3	16472.8	17257.1	17434.9	16569.0	10828.3
50°	8694.1	8667.9	8915.7	9848.7	11151.9	13283.2	16347.4	17604.0	17927.6	16988.8	11006.2
52.5°	6323.8	6516.2	6784.5	7711.6	9256.8	11592.2	14729.3	16709.0	17140.5	16472.8	10889.5
55°	3682.3	3469.5	4073.0	4857.3	6315.1	8743.7	12452.3	14810.9	15609.8	15534.0	10300.6
57.5°	1475.3	1428.6	1635.6	2204.1	3294.6	5420.0	9055.7	12169.5	13449.4	14227.8	9052.7
60°	647.2	632.7	743.5	898.0	1347.0	2498.6	4953.5	7568.7	8904.1	9942.0	6230.5
62.5°	466.5	460.7	516.1	571.4	711.4	1087.5	2081.7	3049.7	3801.9	4592.0	2790.2
65°	376.1	390.7	428.6	457.7	524.8	603.5	734.7	848.4	1040.8	1078.7	615.2
67.5°	306.1	317.8	352.8	384.9	396.5	326.5	338.2	297.4	297.4	265.3	212.8
70°	224.5	227.4	268.2	306.1	244.9	131.2	230.3	230.3	207.0	198.3	180.8
72.5°	166.2	169.1	201.2	189.5	96.2	81.6	169.1	186.6	169.1	160.4	145.8
75°	122.5	125.4	105.0	43.7	40.8	52.5	99.1	128.3	122.5	119.5	110.8
77.5°	23.3	17.5	14.6	20.4	29.2	43.7	64.1	78.7	81.6	87.5	81.6
80°	2.9	2.9	8.7	17.5	32.1	46.6	67.1	75.8	78.7	81.6	75.8
82.5°	0.0	2.9	8.7	17.5	32.1	43.7	58.3	67.1	72.9	75.8	72.9
85°	0.0	2.9	5.8	14.6	26.2	32.1	29.2	20.4	17.5	20.4	14.6
87.5°	0.0	0.0	2.9	2.9	5.8	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°	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1860.1	1848.5	1807.6	1763.9	1726.0	1743.5	1726.0	1711.4	1717.3	1711.4	1705.6
5°	1962.2	1909.7	1822.2	1784.3	1752.2	1749.3	1740.6	1737.7	1740.6	1740.6	1714.3
7.5°	2058.4	1973.8	1880.5	1839.7	1801.8	1804.7	1784.3	1784.3	1781.4	1766.8	1761.0
10°	2204.1	2090.4	1970.9	1898.0	1851.4	1842.6	1822.2	1801.8	1801.8	1801.8	1772.6
12.5°	2364.5	2221.6	2058.4	1973.8	1918.4	1874.7	1842.6	1836.8	1804.7	1798.9	1784.3
15°	2504.4	2323.7	2116.7	2000.1	1930.1	1871.8	1822.2	1790.1	1775.6	1766.8	1755.2
17.5°	2641.5	2411.2	2148.8	2000.1	1924.3	1857.2	1804.7	1775.6	1740.6	1746.4	1723.1
20°	2825.2	2504.4	2157.5	1962.2	1868.9	1804.7	1734.7	1720.2	1699.8	1682.3	1688.1
22.5°	3003.0	2571.5	2131.3	1915.5	1781.4	1705.6	1670.6	1653.1	1644.4	1629.8	1609.4
25°	3163.4	2644.4	2090.4	1831.0	1688.1	1632.7	1600.6	1597.7	1577.3	1577.3	1539.4
27.5°	3326.6	2670.6	2020.5	1731.8	1606.5	1574.4	1559.8	1554.0	1545.2	1524.8	1498.6
30°	3513.2	2679.4	1918.4	1629.8	1533.6	1498.6	1519.0	1533.6	1495.7	1457.8	1469.4
32.5°	3667.7	2659.0	1796.0	1533.6	1481.1	1463.6	1504.4	1519.0	1475.3	1434.4	1414.0
35°	3854.3	2609.4	1676.4	1457.8	1428.6	1463.6	1498.6	1498.6	1411.1	1361.6	1349.9
37.5°	4137.1	2554.0	1565.6	1393.6	1373.2	1446.1	1492.8	1460.7	1323.7	1262.4	1247.9
40°	4440.4	2519.0	1457.8	1329.5	1344.1	1417.0	1443.2	1344.1	1204.1	1166.2	1154.6
42.5°	4880.6	2449.1	1361.6	1274.1	1317.8	1376.1	1376.1	1198.3	1145.8	1125.4	1122.5
45°	5428.7	2399.5	1277.0	1227.4	1279.9	1294.5	1247.9	1122.5	1084.6	1078.7	1081.7
47.5°	5697.0	2303.3	1189.5	1172.0	1209.9	1212.9	1090.4	1061.3	1029.2	1020.4	1014.6
50°	5656.1	2131.3	1075.8	1099.2	1151.6	1122.5	994.2	1000.0	970.9	968.0	953.4
52.5°	5370.4	1860.1	962.1	1017.5	1075.8	991.3	915.5	909.6	909.6	871.7	857.2
55°	4761.1	1498.6	825.1	895.1	965.0	833.8	813.4	807.6	793.0	758.0	749.3
57.5°	3769.8	1099.2	621.0	696.8	819.3	708.5	705.6	679.3	641.4	615.2	615.2
60°	2242.0	632.7	390.7	425.7	542.3	574.4	638.5	626.8	562.7	521.9	510.2
62.5°	1023.4	326.5	247.8	253.7	291.6	373.2	501.5	580.2	489.8	419.8	414.0
65°	344.0	242.0	204.1	195.3	201.2	224.5	300.3	411.1	390.7	323.6	312.0
67.5°	209.9	215.7	192.4	177.8	177.8	174.9	172.0	186.6	230.3	224.5	227.4
70°	180.8	198.3	177.8	160.4	154.5	145.8	122.5	102.0	87.5	102.0	107.9
72.5°	145.8	157.4	151.6	137.0	122.5	110.8	87.5	67.1	49.6	43.7	43.7
75°	107.9	116.6	122.5	105.0	93.3	78.7	64.1	43.7	26.2	17.5	17.5
77.5°	78.7	87.5	90.4	81.6	70.0	55.4	40.8	29.2	14.6	5.8	5.8
80°	67.1	78.7	87.5	81.6	72.9	52.5	37.9	20.4	11.7	2.9	2.9
82.5°	64.1	78.7	87.5	78.7	70.0	49.6	37.9	23.3	8.7	2.9	2.9
85°	14.6	20.4	26.2	32.1	37.9	37.9	29.2	17.5	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	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)