

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: P529502

Luminaire Tested: **GALN-SA4C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19943 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 213
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



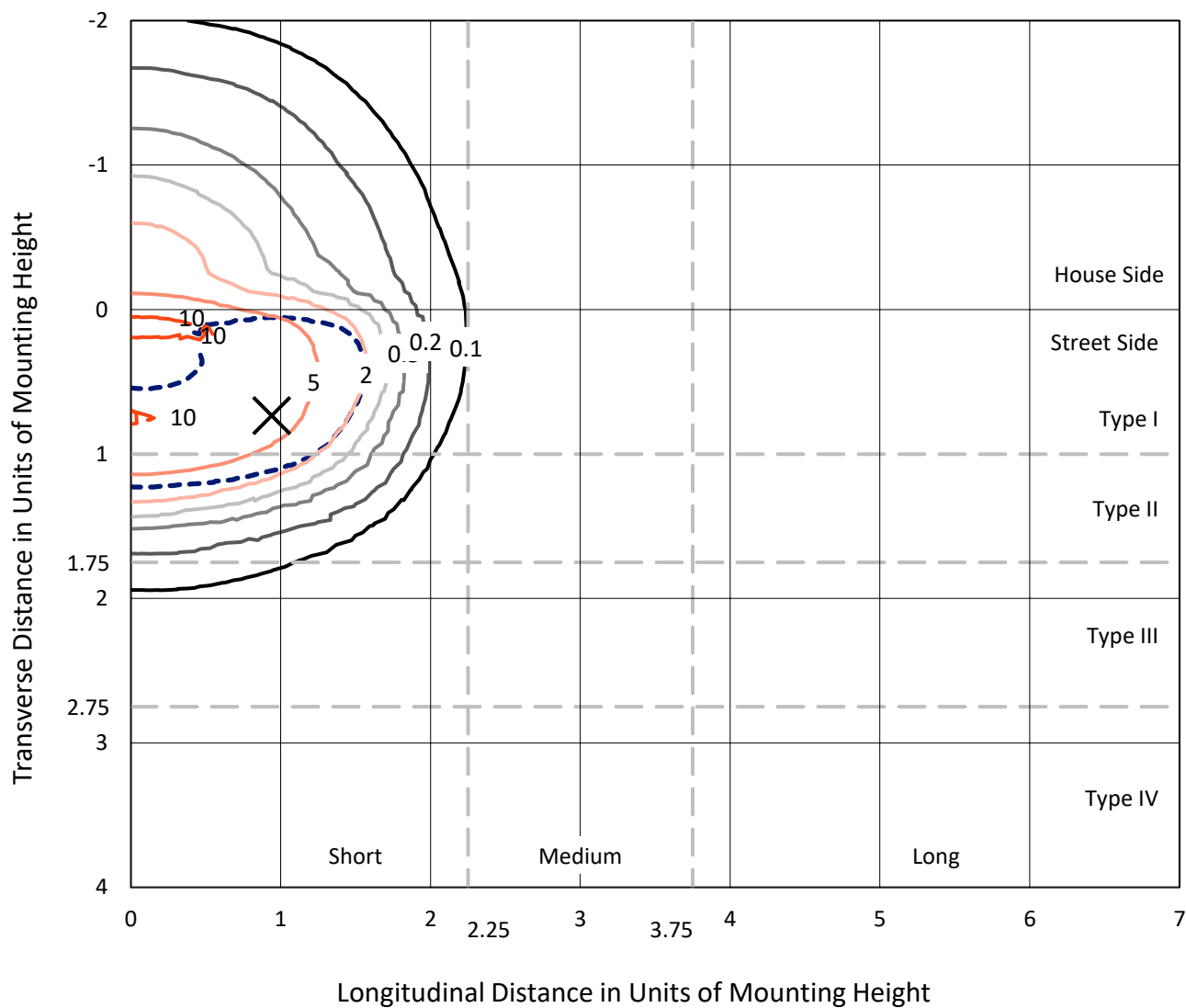
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

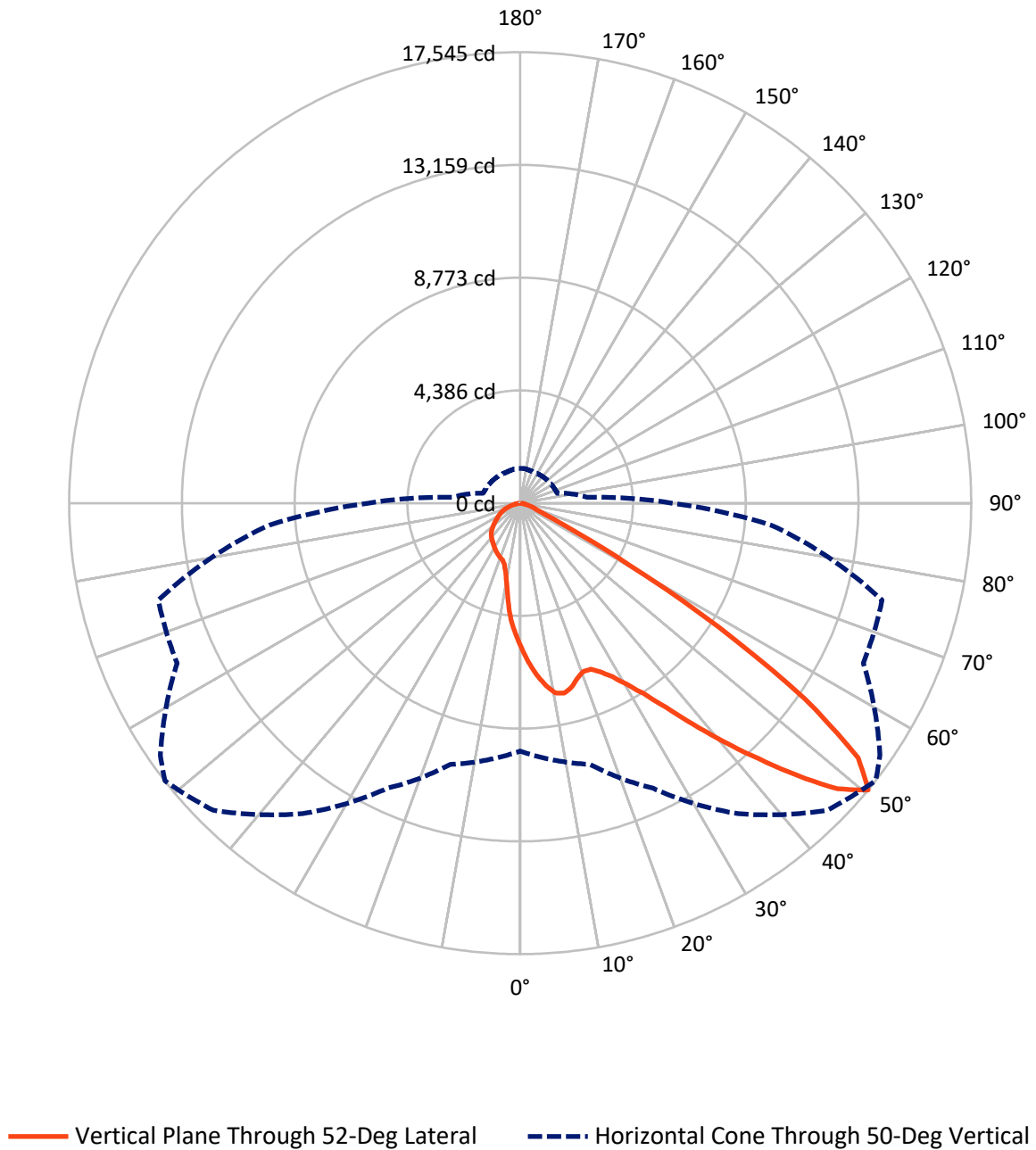
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3748.8	0.0	3748.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16194.2	0.0	16194.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	19943.0	0.0	19943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.1	2.6
10°-20°	1388.7	7.0
20°-30°	2339.3	11.7
30°-40°	3925.5	19.7
40°-50°	6005.1	30.1
50°-60°	4378.2	22.0
60°-70°	974.4	4.9
70°-80°	351.4	1.8
80°-90°	62.2	0.3
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°	19943.0	100.0
0°-180°	19943.0	100.0

Coefficient of Utilization



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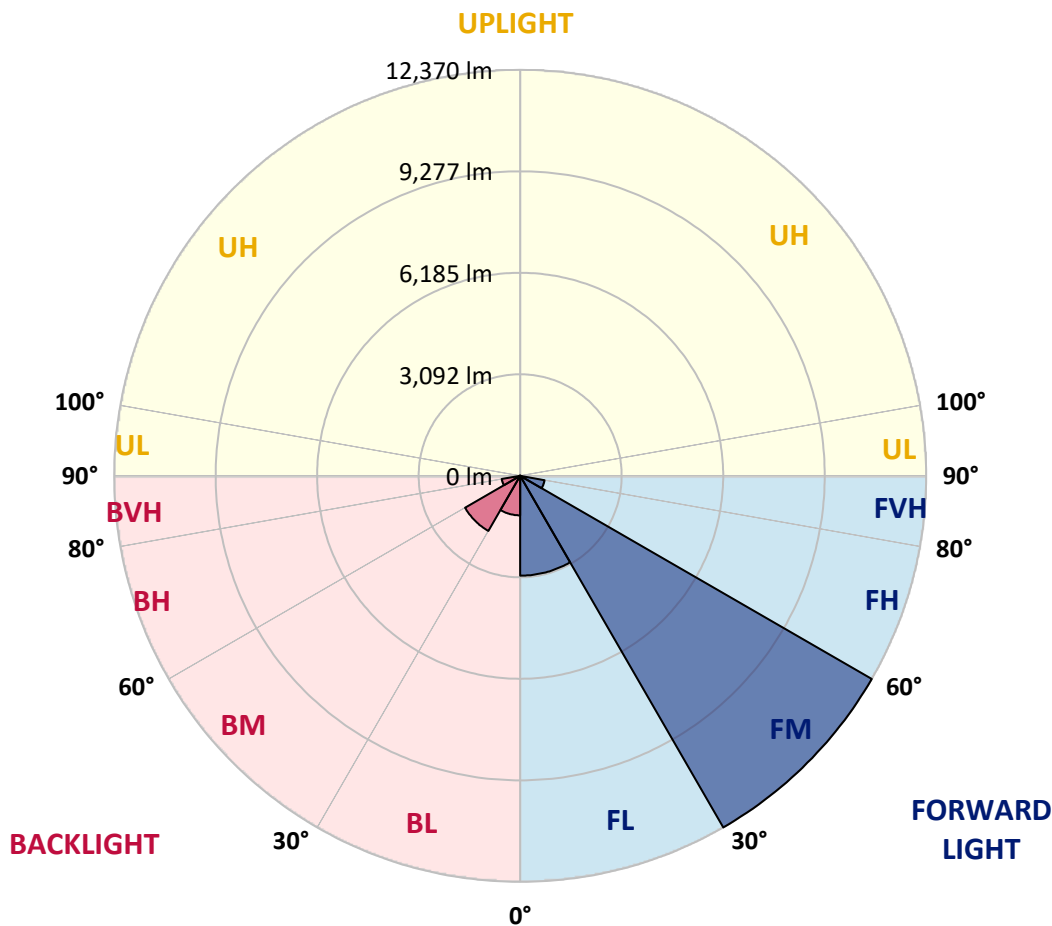
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3042.0	15.3			
FM	(30°-60°)	12369.7	62.0			
FH	(60°-80°)	754.7	3.8			G1/1800
FVH	(80°-90°)	27.9	0.1			G1/100
BL	(0°-30°)	1204.2	6.0	B3/2500		
BM	(30°-60°)	1939.1	9.7	B2/2500		
BH	(60°-80°)	571.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	34.3	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6
2.5°	6619.0	6491.6	6506.1	6414.7	6316.2	6287.3	6186.4	6090.3	6018.2	5864.3	5722.5
5°	7234.3	7195.8	7138.2	7066.1	6991.6	6808.9	6705.5	6585.4	6321.0	6083.1	5847.5
7.5°	7323.2	7316.0	7347.3	7347.3	7373.7	7304.0	7157.4	7073.3	6792.1	6405.1	5967.7
10°	6698.3	6720.0	6871.4	7068.5	7342.5	7532.3	7508.3	7486.7	7179.0	6650.3	6109.5
12.5°	6200.8	6152.8	6241.7	6409.9	6820.9	7280.0	7590.0	7592.4	7513.1	7042.0	6212.8
15°	5919.6	5953.3	5977.3	6056.6	6366.7	6897.8	7443.4	7604.4	7952.9	7318.4	6376.3
17.5°	6099.9	5986.9	5982.1	6001.3	6160.0	6558.9	7171.8	7448.2	8193.3	7674.1	6578.2
20°	6335.4	6333.0	6265.7	6241.7	6239.3	6595.0	6994.0	7368.9	8320.6	8135.6	6782.5
22.5°	6748.8	6748.8	6638.2	6585.4	6472.4	6763.2	7018.0	7272.8	8532.1	8452.8	6881.0
25°	7441.0	7328.0	7138.2	7008.4	6943.5	7046.8	7272.8	7501.1	8717.2	8789.3	7085.3
27.5°	8080.3	7902.4	7808.7	7585.2	7498.7	7438.6	7645.3	7876.0	8933.5	9313.3	7195.8
30°	8806.1	8774.9	8606.6	8318.2	8104.3	7993.8	8183.6	8412.0	9330.1	9849.2	7450.6
32.5°	10104.0	9820.4	9592.1	9238.7	8890.3	8654.7	8842.2	8993.6	9988.6	10409.2	7729.4
35°	11505.2	11413.8	11019.7	10382.8	9849.2	9637.7	9748.3	9861.2	10755.3	11264.8	8198.1
37.5°	12882.3	12757.4	12432.9	11896.9	11248.0	10817.8	10897.1	11029.3	11615.7	12418.5	8770.1
40°	13872.5	13718.7	13555.3	13476.0	12831.9	12243.0	12197.4	12231.0	12779.0	13500.0	9404.6
42.5°	13944.6	14134.5	14185.0	14504.6	14353.2	13870.1	13588.9	13596.2	13889.4	14569.5	10046.3
45°	13793.2	13617.8	13990.3	14862.8	15362.7	15588.6	15115.1	15055.0	14576.7	15189.6	10366.0
47.5°	12204.6	12252.6	12882.3	14261.9	15706.4	16715.8	16605.2	16405.7	14944.5	15168.0	10315.5
50°	9647.3	9938.1	10522.2	12240.6	14745.0	16893.6	17545.0	17083.5	14725.8	14571.9	9801.1
52.5°	6424.3	6544.5	6929.1	9147.4	11856.1	15100.7	16463.4	16569.2	14523.9	13790.8	9149.8
55°	2860.1	2850.5	3391.2	4778.0	7438.6	11490.8	13451.9	14096.1	13747.6	12995.3	8515.3
57.5°	1211.3	1252.2	1473.3	2064.5	3658.0	6933.9	9113.8	9678.6	10572.6	10671.2	6532.5
60°	819.6	824.4	884.5	1033.5	1531.0	3256.6	4780.4	5458.2	6097.5	6054.2	3465.7
62.5°	644.1	660.9	706.6	766.7	908.5	1478.1	2139.0	2516.4	2557.2	2151.1	1314.7
65°	550.4	552.8	598.5	648.9	711.4	860.4	1031.1	1050.3	1062.3	1023.9	966.2
67.5°	454.2	459.1	495.1	552.8	610.5	658.5	706.6	730.6	785.9	894.1	879.7
70°	360.5	367.7	399.0	447.0	499.9	528.8	588.8	610.5	660.9	745.1	778.7
72.5°	274.0	276.4	302.8	336.5	384.5	413.4	463.9	487.9	521.5	593.6	624.9
75°	197.1	204.3	223.5	240.3	247.6	266.8	314.8	341.3	389.4	420.6	423.0
77.5°	103.3	108.2	113.0	113.0	137.0	173.0	204.3	218.7	252.4	276.4	264.4
80°	40.9	43.3	55.3	74.5	96.1	125.0	146.6	153.8	182.7	197.1	204.3
82.5°	24.0	26.4	36.1	52.9	69.7	88.9	105.8	113.0	132.2	149.0	153.8
85°	12.0	14.4	21.6	33.6	45.7	55.3	52.9	50.5	50.5	48.1	50.5
87.5°	4.8	4.8	7.2	7.2	7.2	9.6	12.0	12.0	12.0	14.4	14.4
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°	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6
2.5°	5628.8	5532.7	5443.7	5280.3	5102.5	5052.0	4845.3	4770.8	4717.9	4655.4	4636.2
5°	5657.7	5530.3	5244.3	4915.0	4653.0	4316.5	4095.4	3857.5	3684.4	3641.2	3629.2
7.5°	5717.7	5499.0	5006.3	4508.8	3972.9	3516.2	3167.7	2980.2	2814.4	2804.8	2788.0
10°	5785.0	5405.3	4746.8	3965.6	3280.7	2857.7	2648.6	2566.9	2526.0	2516.4	2511.6
12.5°	5840.3	5386.1	4455.9	3436.9	2790.4	2535.6	2473.1	2465.9	2482.7	2487.5	2497.2
15°	5864.3	5309.2	4105.0	2963.4	2485.1	2391.4	2417.8	2446.7	2458.7	2489.9	2465.9
17.5°	5910.0	5210.6	3672.4	2588.5	2314.5	2331.3	2377.0	2410.6	2429.9	2451.5	2420.2
20°	5934.0	5121.7	3266.2	2365.0	2254.4	2285.7	2348.1	2374.6	2398.6	2408.2	2372.2
22.5°	5912.4	4939.0	2908.1	2184.7	2196.7	2237.6	2292.9	2321.7	2307.3	2268.8	2247.2
25°	5854.7	4681.9	2535.6	2069.3	2115.0	2187.1	2230.4	2208.7	2182.3	2160.7	2153.5
27.5°	5852.3	4367.0	2266.4	1963.6	2045.3	2143.9	2129.4	2110.2	2122.2	2105.4	2086.2
30°	5864.3	4061.8	2045.3	1903.5	1994.8	2042.9	2059.7	2040.5	2054.9	2023.7	2033.3
32.5°	5801.9	3763.8	1901.1	1833.8	1934.8	1932.4	1987.6	2002.0	1968.4	1903.5	1913.1
35°	5828.3	3523.4	1778.5	1802.6	1867.5	1867.5	1910.7	1893.9	1805.0	1766.5	1776.1
37.5°	6011.0	3287.9	1718.4	1759.3	1802.6	1821.8	1807.4	1735.3	1713.6	1713.6	1718.4
40°	6184.0	3086.0	1682.4	1749.7	1742.5	1754.5	1648.7	1656.0	1656.0	1658.4	1646.3
42.5°	6337.8	2949.0	1653.6	1692.0	1704.0	1641.5	1576.6	1569.4	1586.3	1583.9	1574.2
45°	6393.1	2836.0	1612.7	1627.1	1636.7	1533.4	1502.1	1487.7	1506.9	1514.2	1523.8
47.5°	6181.6	2742.3	1567.0	1538.2	1519.0	1451.7	1410.8	1384.4	1408.4	1449.3	1458.9
50°	5910.0	2619.7	1494.9	1439.6	1398.8	1369.9	1341.1	1314.7	1331.5	1360.3	1353.1
52.5°	5508.6	2427.5	1403.6	1345.9	1276.2	1283.4	1257.0	1242.6	1252.2	1252.2	1245.0
55°	4936.6	1994.8	1249.8	1208.9	1151.2	1170.5	1175.3	1156.0	1136.8	1153.6	1139.2
57.5°	3369.6	1408.4	1115.2	1115.2	1057.5	1083.9	1081.5	1035.9	990.2	995.0	985.4
60°	1949.2	1122.4	1028.7	1019.1	959.0	980.6	985.4	954.2	884.5	889.3	879.7
62.5°	1108.0	959.0	898.9	884.5	872.4	891.7	891.7	850.8	790.7	795.5	785.9
65°	942.1	889.3	802.7	800.3	795.5	800.3	781.1	737.9	685.0	663.3	665.7
67.5°	855.6	822.0	737.9	716.2	701.8	699.4	663.3	622.5	598.5	579.2	576.8
70°	749.9	723.4	660.9	632.1	617.7	584.0	548.0	521.5	487.9	478.3	487.9
72.5°	593.6	591.2	567.2	536.0	504.7	478.3	447.0	411.0	379.7	372.5	355.7
75°	411.0	415.8	420.6	415.8	389.4	355.7	319.7	290.8	252.4	230.7	225.9
77.5°	269.2	276.4	283.6	274.0	257.2	225.9	201.9	165.8	137.0	120.2	117.8
80°	197.1	206.7	211.5	204.3	185.1	161.0	134.6	105.8	84.1	69.7	69.7
82.5°	151.4	161.0	165.8	153.8	134.6	115.4	96.1	74.5	57.7	45.7	43.3
85°	52.9	50.5	60.1	62.5	74.5	69.7	57.7	43.3	33.6	24.0	21.6
87.5°	14.4	14.4	16.8	16.8	14.4	12.0	12.0	12.0	9.6	7.2	7.2
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)