

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: P531841

Luminaire Tested: **GALN-SA7A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531841
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-SA7A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 18882 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 215
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



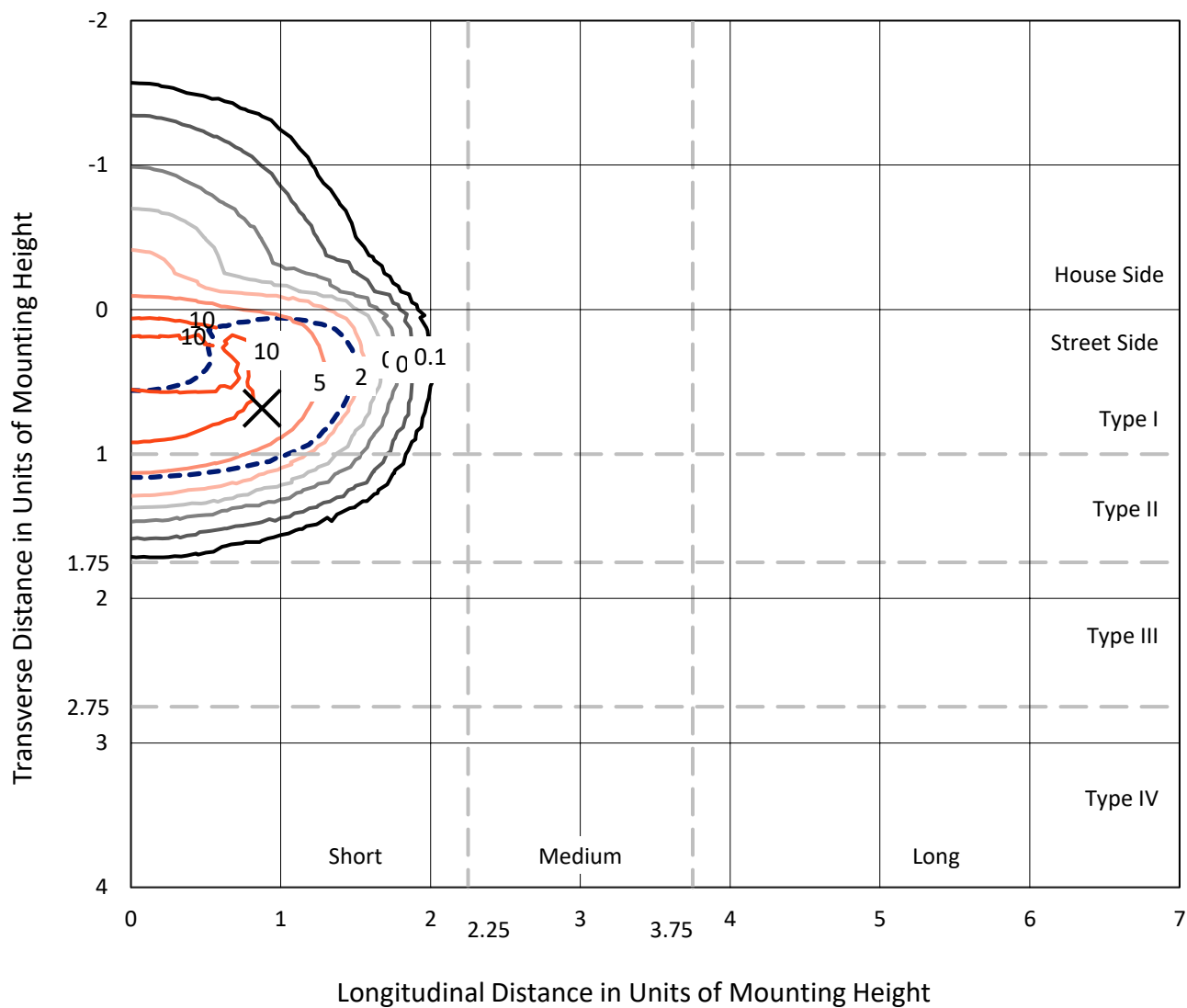
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

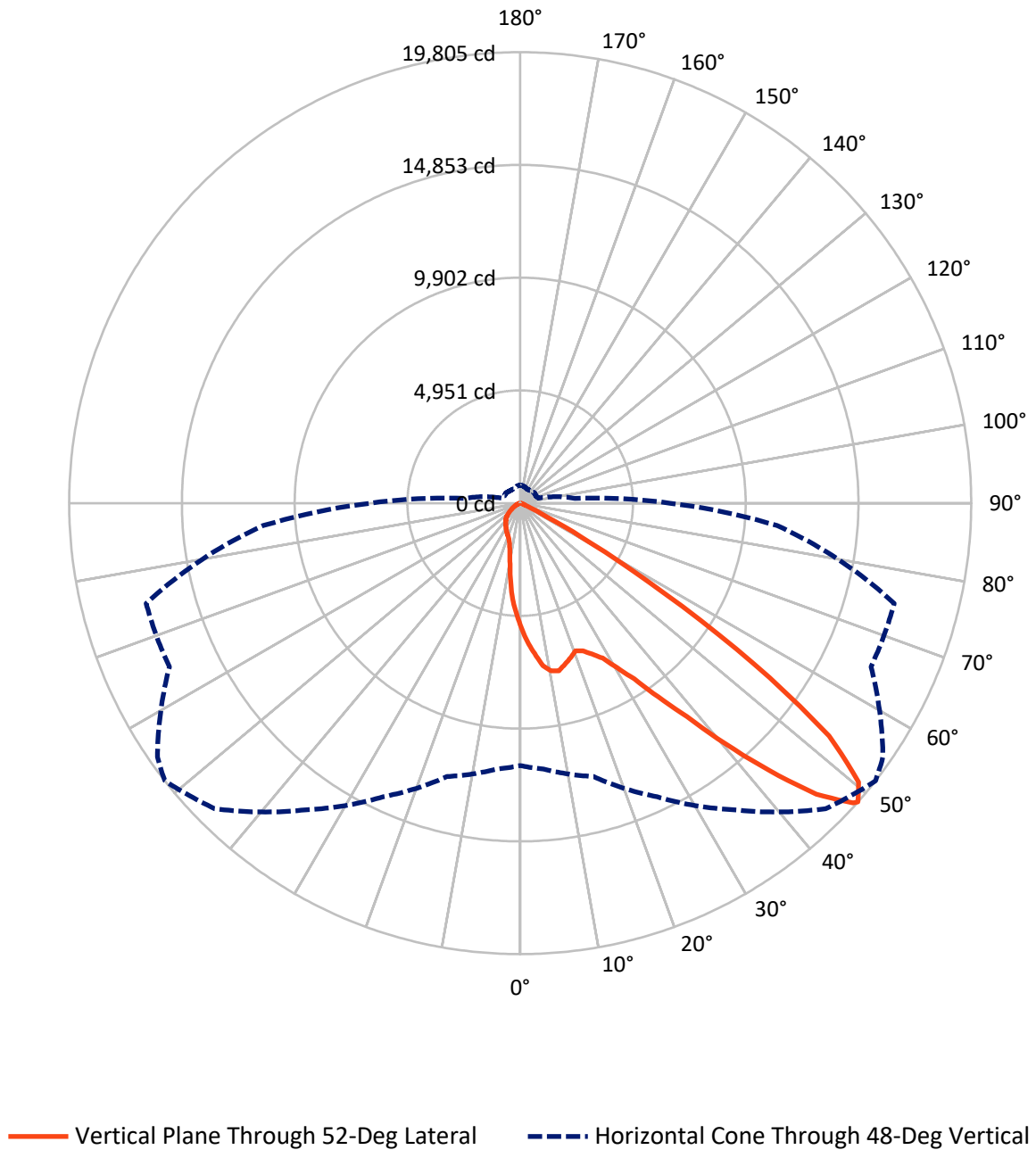


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2299.0	0.0	2299.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16583.0	0.0	16583.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	18882.0	0.0	18882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	2.6
10°-20°	1304.3	6.9
20°-30°	2227.0	11.8
30°-40°	4101.0	21.7
40°-50°	6368.8	33.7
50°-60°	3832.9	20.3
60°-70°	443.3	2.3
70°-80°	85.8	0.5
80°-90°	19.9	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°	18882.0	100.0
0°-180°	18882.0	100.0

Coefficient of Utilization



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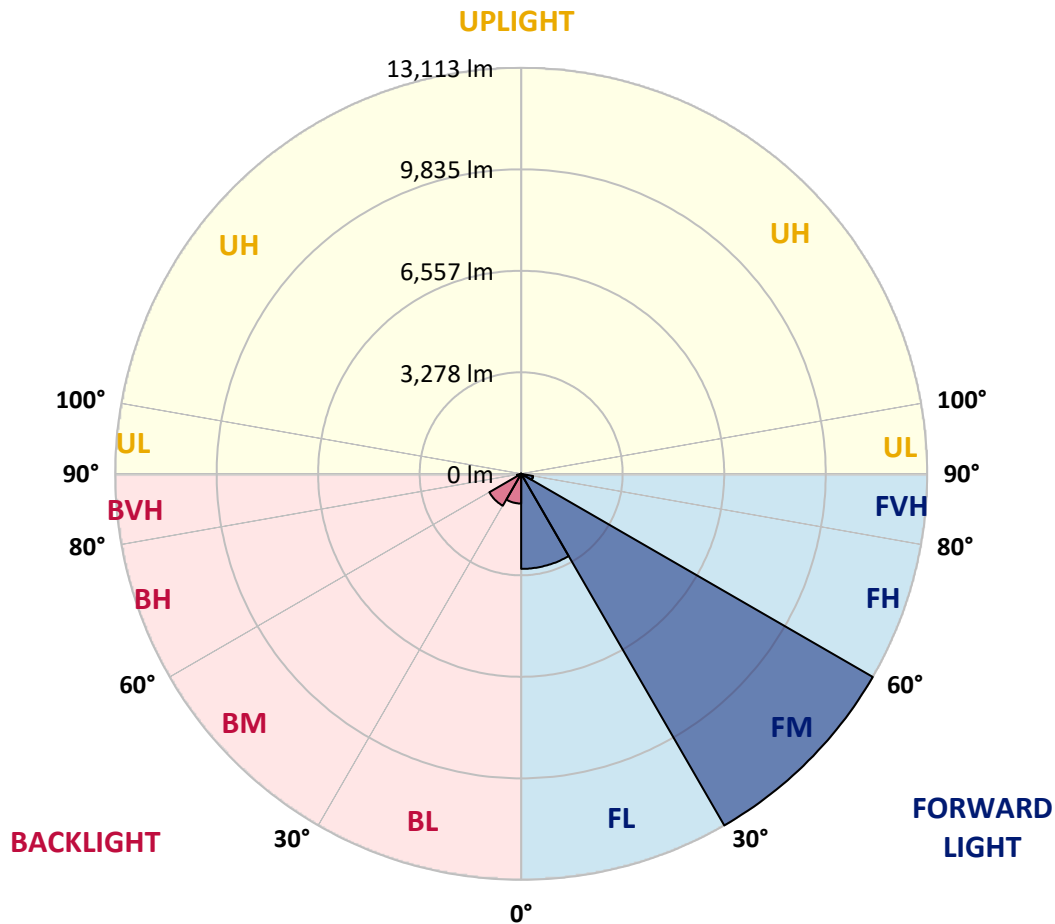
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.0	16.3			
FM	(30°-60°)	13113.2	69.4			
FH	(60°-80°)	390.4	2.1			G0/660
FVH	(80°-90°)	9.4	0.1			G0/10
BL	(0°-30°)	960.4	5.1	B2/1000		
BM	(30°-60°)	1189.5	6.3	B2/2500		
BH	(60°-80°)	138.8	0.7	B1/500		G1/500
BVH	(80°-90°)	10.4	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°	52°	55°	65°	75°	85°
0°	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8
2.5°	6608.9	6457.5	6471.3	6372.2	6314.4	6220.8	6094.2	6069.4	5931.8	5744.6	5554.7
5°	7203.4	7167.6	7214.4	7071.3	7076.8	6922.7	6625.4	6630.9	6314.4	6008.8	5714.3
7.5°	7242.0	7159.4	7206.2	7332.8	7407.1	7379.6	7211.7	7065.8	6765.8	6317.1	5887.7
10°	6485.0	6641.9	6691.5	6900.7	7197.9	7511.7	7492.4	7500.7	7250.2	6663.9	6036.3
12.5°	6030.8	5926.2	6094.2	6220.8	6669.4	7277.8	7555.8	7616.3	7635.6	6999.7	6185.0
15°	5824.4	5824.4	5851.9	5887.7	6212.5	6774.0	7341.1	7517.2	7932.9	7440.2	6419.0
17.5°	5953.8	5948.3	5986.8	5912.5	6033.6	6465.7	7142.9	7343.8	8265.9	7872.3	6603.4
20°	6347.4	6366.7	6341.9	6127.2	6135.4	6460.2	6922.7	7239.2	8491.6	8246.6	6848.4
22.5°	6895.1	6906.2	6765.8	6531.8	6463.0	6622.6	7049.3	7291.5	8673.3	8695.3	6922.7
25°	7528.2	7484.2	7456.7	7126.4	6917.2	7054.8	7335.6	7475.9	8786.1	9080.7	7134.6
27.5°	8406.3	8318.2	8150.3	7855.8	7701.6	7506.2	7707.1	7938.4	9108.2	9620.2	7365.8
30°	9702.8	9625.7	9298.1	8918.3	8513.6	8321.0	8384.3	8510.9	9689.0	10245.0	7671.4
32.5°	11654.3	11491.9	11018.5	10294.5	9744.0	9212.8	9196.3	9331.2	10209.2	11109.3	8034.7
35°	13804.1	13754.5	13058.1	12312.2	11246.9	10426.7	10440.4	10512.0	11205.6	12243.4	8510.9
37.5°	15232.6	15505.1	15062.0	14261.0	13366.4	12193.8	11896.5	11921.3	12573.7	13586.6	9369.7
40°	16336.4	16105.2	16157.5	15970.3	15359.2	14561.0	13903.1	13773.8	14156.4	15073.0	10223.0
42.5°	15854.7	15865.7	16187.8	16630.9	16782.3	16724.5	16052.9	15807.9	15510.6	16289.6	11035.0
45°	14494.9	14778.5	15196.8	16369.4	17398.9	18365.0	18232.9	17825.5	16446.5	17253.0	11502.9
47.5°	12325.9	12314.9	13000.3	14525.2	16812.6	19075.2	19675.3	19389.0	17109.9	17145.7	11406.6
48°	11524.9	11723.1	12430.5	14225.2	16441.0	18970.6	19804.6	19444.0	16997.0	17002.5	11324.0
50°	8519.2	8483.4	9364.2	11566.2	14684.9	17825.5	19259.6	19540.4	16994.3	16278.6	10746.0
52.5°	4500.4	4654.6	5295.9	7272.2	10382.6	14588.5	16988.8	17426.4	16394.2	15095.0	9914.7
55°	1913.0	1728.6	2221.3	3283.8	5840.9	9746.8	12463.6	13438.0	13861.9	13358.1	8673.3
57.5°	682.6	745.9	858.8	1235.9	2455.3	5334.4	7431.9	8188.8	9603.7	9801.8	5909.7
60°	437.7	445.9	481.7	567.0	922.1	2056.2	3526.0	4128.8	4770.2	4924.3	2758.1
62.5°	338.6	341.3	357.8	371.6	437.7	798.2	1324.0	1569.0	1629.5	1401.0	723.9
65°	283.5	286.3	291.8	291.8	311.0	374.3	462.4	509.2	495.5	490.0	410.1
67.5°	217.5	223.0	234.0	234.0	245.0	228.5	256.0	272.5	308.3	374.3	349.6
70°	170.7	173.4	181.7	187.2	187.2	165.2	184.4	200.9	225.7	278.0	275.3
72.5°	132.1	137.6	143.1	143.1	134.9	112.9	132.1	145.9	162.4	192.7	187.2
75°	101.8	101.8	104.6	85.3	66.1	57.8	79.8	96.3	121.1	126.6	104.6
77.5°	27.5	30.3	27.5	24.8	27.5	41.3	52.3	60.6	77.1	77.1	68.8
80°	0.0	2.8	8.3	16.5	27.5	38.5	46.8	52.3	60.6	66.1	63.3
82.5°	0.0	2.8	8.3	16.5	24.8	30.3	41.3	44.0	49.5	57.8	57.8
85°	0.0	2.8	5.5	11.0	16.5	19.3	19.3	16.5	16.5	13.8	11.0
87.5°	0.0	0.0	2.8	5.5	5.5	8.3	8.3	8.3	8.3	8.3	8.3
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°	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8	5452.8
2.5°	5480.3	5395.0	5265.6	5061.9	4866.5	4739.9	4618.8	4483.9	4409.6	4404.1	4362.8
5°	5546.4	5353.7	5045.4	4695.9	4321.5	3999.5	3674.7	3462.7	3272.8	3168.2	3148.9
7.5°	5582.2	5331.7	4833.5	4247.2	3608.6	3082.9	2719.5	2452.5	2347.9	2270.9	2268.1
10°	5656.5	5293.2	4516.9	3652.6	2862.7	2331.4	2080.9	1959.8	1902.0	1880.0	1847.0
12.5°	5711.5	5221.6	4192.1	3041.6	2262.6	1932.3	1822.2	1794.7	1797.4	1808.4	1794.7
15°	5788.6	5158.3	3754.5	2496.6	1899.3	1739.6	1739.6	1745.1	1783.7	1789.2	1786.4
17.5°	5783.1	5034.4	3303.1	2056.2	1679.1	1657.0	1665.3	1717.6	1742.4	1750.6	1731.4
20°	5849.2	4918.8	2837.9	1756.1	1555.2	1588.2	1643.3	1657.0	1687.3	1692.8	1670.8
22.5°	5829.9	4629.8	2405.7	1519.4	1461.6	1524.9	1580.0	1596.5	1588.2	1571.7	1569.0
25°	5794.1	4382.1	2009.4	1362.5	1392.8	1461.6	1513.9	1483.6	1467.1	1469.9	1472.6
27.5°	5730.8	4068.3	1681.8	1252.4	1299.2	1401.0	1398.3	1387.3	1403.8	1390.0	1403.8
30°	5719.8	3754.5	1412.1	1153.3	1230.4	1304.7	1310.2	1329.5	1348.8	1324.0	1348.8
32.5°	5736.3	3410.4	1219.4	1092.8	1189.1	1191.9	1252.4	1271.7	1257.9	1202.9	1208.4
35°	5862.9	3146.2	1079.0	1059.7	1123.0	1125.8	1183.6	1158.8	1098.3	1065.2	1084.5
37.5°	6129.9	2926.0	1012.9	1029.5	1035.0	1070.7	1073.5	1023.9	1029.5	1026.7	1037.7
40°	6471.3	2758.1	966.1	1001.9	996.4	1021.2	922.1	949.6	974.4	982.7	988.2
42.5°	6705.2	2636.9	935.9	957.9	946.9	902.8	847.8	875.3	894.6	924.9	930.4
45°	6809.8	2540.6	900.1	880.8	880.8	801.0	779.0	784.5	828.5	861.5	856.0
47.5°	6639.2	2447.0	836.8	779.0	798.2	732.2	707.4	707.4	754.2	795.5	787.2
48°	6573.1	2408.5	839.5	757.0	770.7	721.2	696.4	690.9	743.2	781.7	781.7
50°	6245.5	2265.4	768.0	696.4	668.9	663.4	646.9	652.4	685.4	721.2	721.2
52.5°	5607.0	1957.1	649.6	597.3	547.8	580.8	589.0	578.0	594.6	627.6	624.8
55°	4679.3	1502.9	520.2	495.5	456.9	492.7	509.2	495.5	478.9	503.7	503.7
57.5°	2997.5	809.3	415.6	421.1	382.6	418.4	432.2	399.1	368.8	388.1	385.4
60°	1351.5	484.4	341.3	333.1	308.3	349.6	371.6	333.1	291.8	305.5	319.3
62.5°	506.5	344.1	258.7	253.2	247.7	286.3	297.3	267.0	225.7	234.0	236.7
65°	371.6	302.8	206.4	187.2	198.2	225.7	220.2	189.9	162.4	162.4	167.9
67.5°	316.5	264.2	167.9	145.9	145.9	148.6	137.6	121.1	112.9	118.4	123.9
70°	247.7	209.2	132.1	112.9	101.8	90.8	79.8	77.1	68.8	77.1	74.3
72.5°	159.6	140.4	101.8	85.3	77.1	63.3	52.3	49.5	41.3	38.5	38.5
75°	85.3	85.3	79.8	68.8	60.6	49.5	41.3	33.0	22.0	16.5	16.5
77.5°	60.6	66.1	71.6	66.1	55.1	41.3	33.0	22.0	11.0	5.5	5.5
80°	57.8	66.1	71.6	63.3	55.1	41.3	30.3	16.5	8.3	2.8	2.8
82.5°	52.3	60.6	66.1	57.8	49.5	35.8	27.5	16.5	8.3	2.8	2.8
85°	11.0	13.8	16.5	16.5	19.3	24.8	19.3	13.8	5.5	2.8	2.8
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	5.5	5.5	2.8	2.8	2.8
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)