

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: P452108

Luminaire Tested: **GALN-SA3A-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13785 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

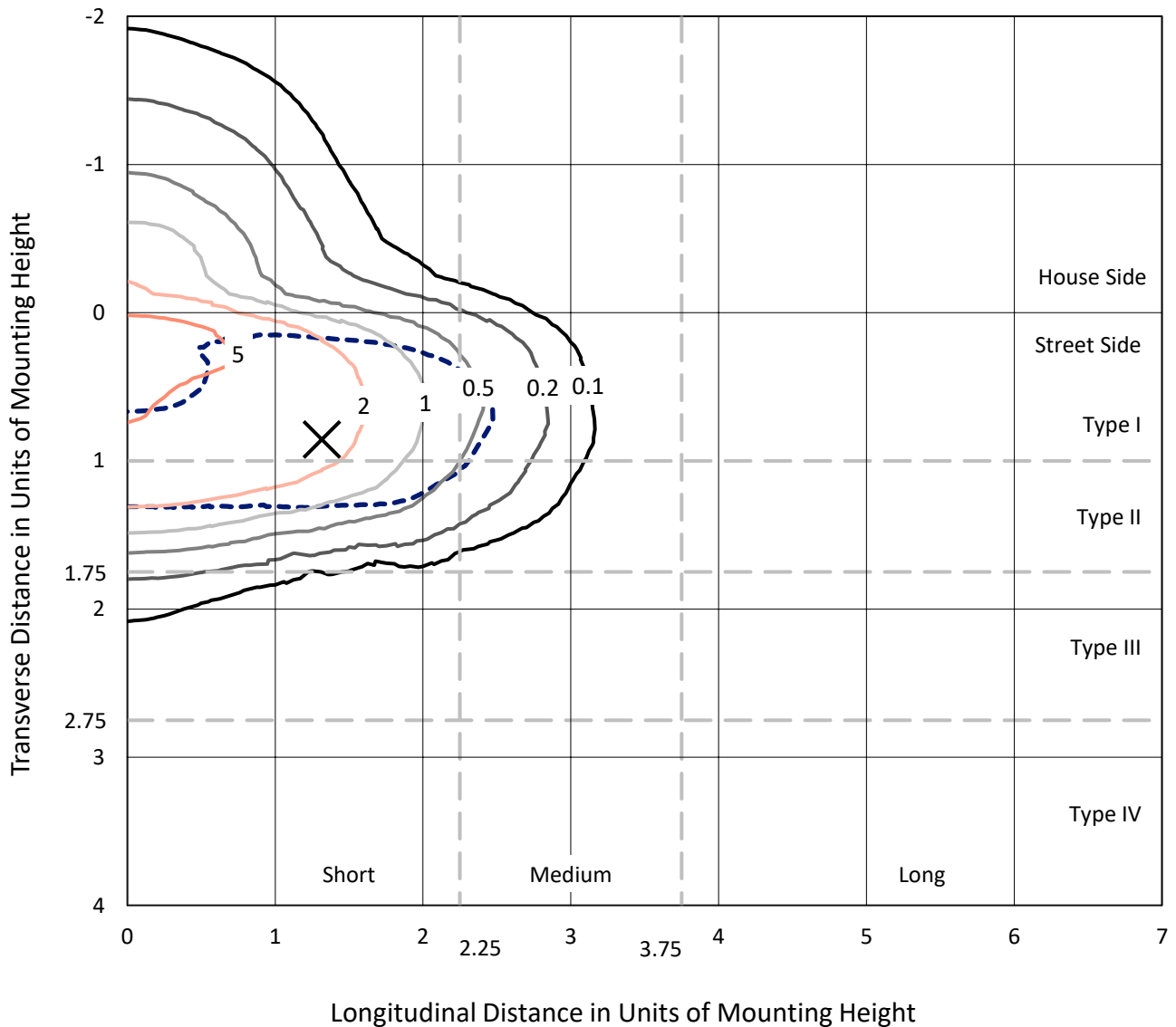
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

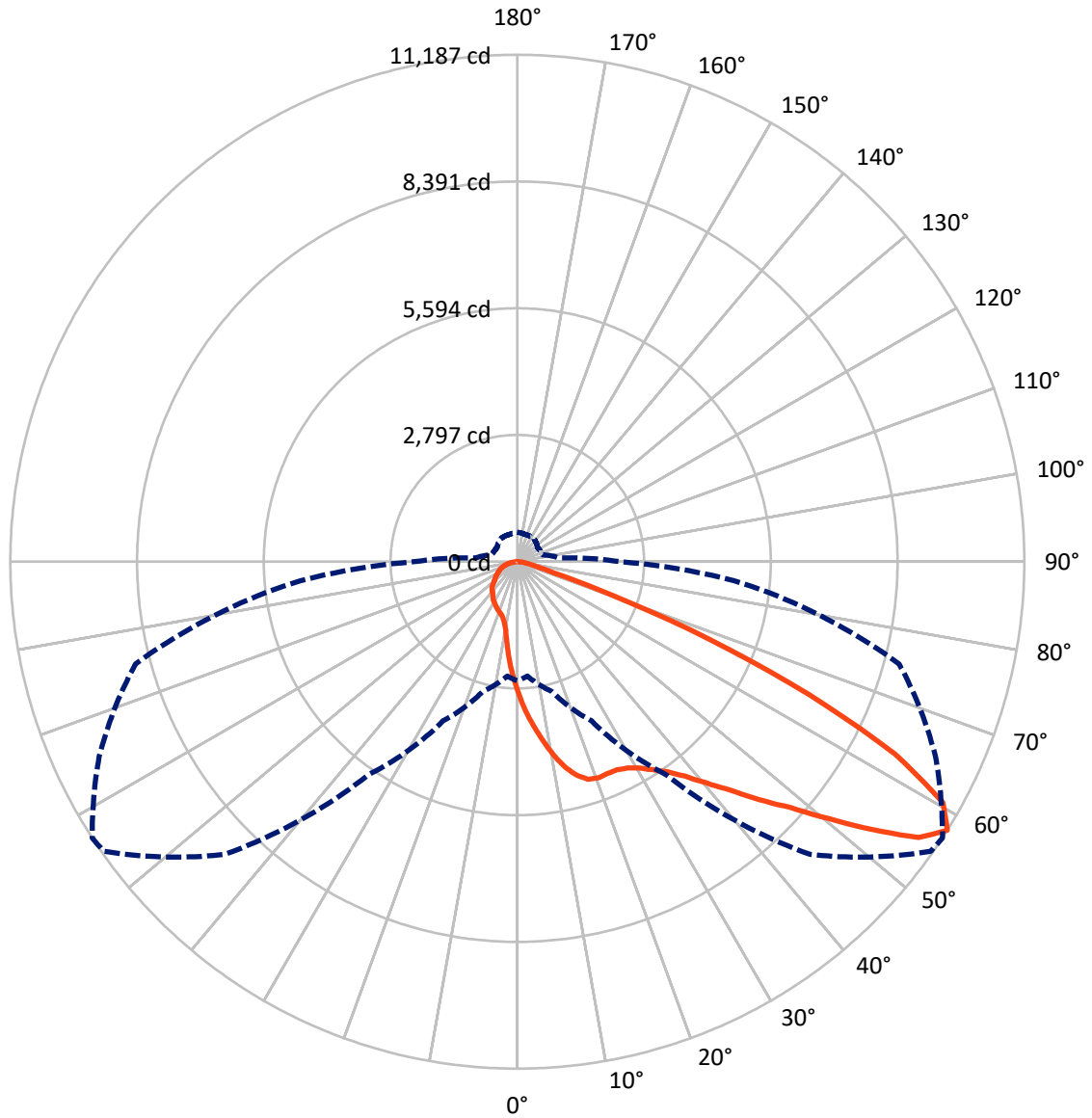
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2096.3	0.0	2096.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	11688.7	0.0	11688.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	13785.0	0.0	13785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.3	2.0
10°-20°	820.3	6.0
20°-30°	1362.1	9.9
30°-40°	2051.7	14.9
40°-50°	3080.5	22.3
50°-60°	3452.8	25.0
60°-70°	2020.8	14.7
70°-80°	597.7	4.3
80°-90°	120.8	0.9
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°	13785.0	100.0
0°-180°	13785.0	100.0

**Coefficient of Utilization**



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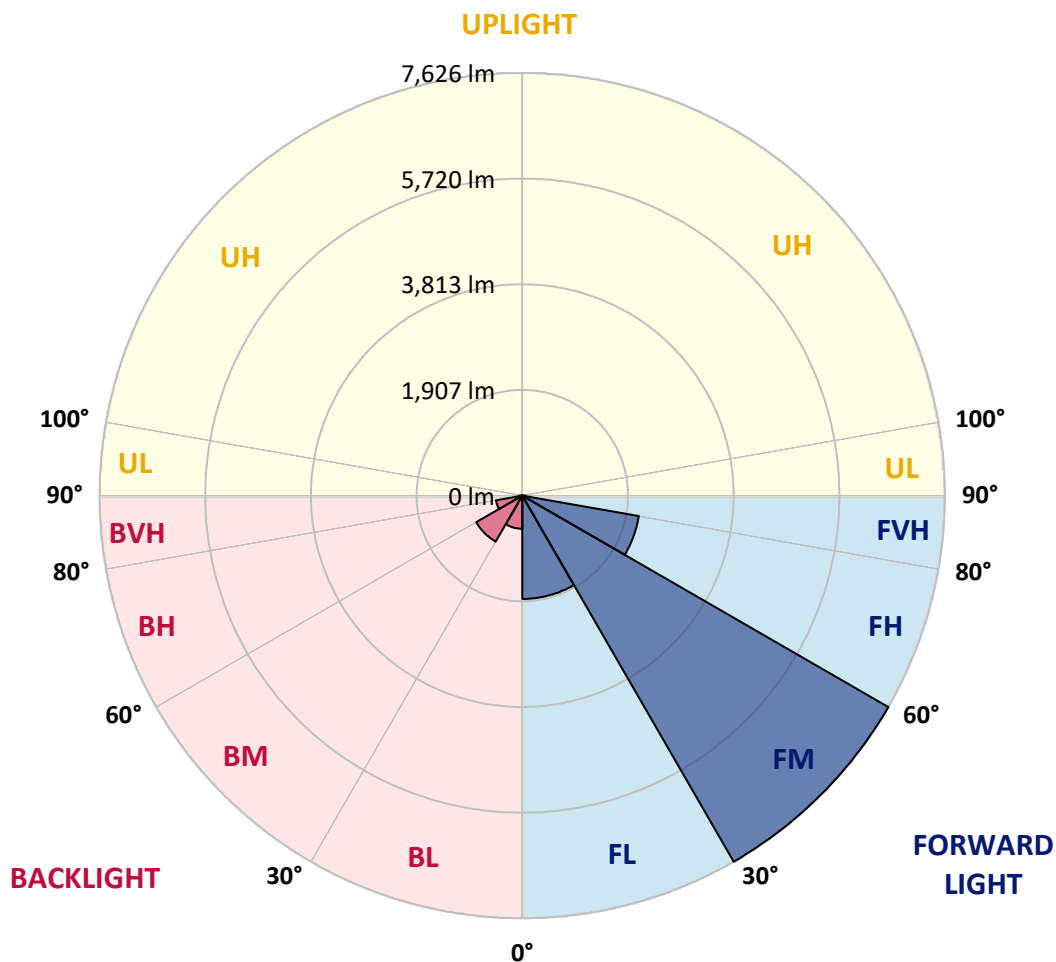
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.4	13.5			
FM	(30°-60°)	7626.5	55.3			
FH	(60°-80°)	2136.1	15.5			G2/5000
FVH	(80°-90°)	62.7	0.5			G1/100
BL	(0°-30°)	597.3	4.3	B2/1000		
BM	(30°-60°)	958.5	7.0	B1/1000		
BH	(60°-80°)	482.4	3.5	B1/500		G1/500
BVH	(80°-90°)	58.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1
2.5°	3598.6	3559.3	3528.4	3501.2	3465.8	3369.9	3274.1	3272.6	3196.4	3078.7	2957.9
5°	4184.9	4132.1	4138.9	4054.3	3969.8	3831.0	3628.0	3617.4	3455.2	3234.9	3010.8
7.5°	4566.7	4567.5	4546.3	4498.0	4406.7	4249.0	4018.9	3966.8	3741.2	3406.9	3071.1
10°	4547.1	4567.5	4602.9	4644.4	4672.3	4594.6	4384.9	4321.5	4027.9	3615.2	3138.3
12.5°	4286.0	4317.7	4368.3	4472.4	4640.7	4768.9	4697.2	4645.9	4360.0	3822.7	3212.2
15°	4123.0	4141.9	4169.8	4240.0	4421.1	4728.2	4913.8	4886.6	4673.1	4057.4	3295.2
17.5°	4073.2	4092.1	4101.1	4144.1	4273.2	4587.8	4999.1	5047.4	4950.8	4273.2	3379.0
20°	4123.0	4132.1	4132.1	4157.7	4258.8	4505.6	4995.3	5092.6	5178.7	4532.0	3457.5
22.5°	4253.6	4257.3	4252.0	4261.1	4336.6	4528.2	4959.8	5080.6	5362.8	4751.6	3518.6
25°	4465.6	4471.6	4436.9	4415.8	4470.9	4627.8	4979.5	5090.4	5506.9	4961.4	3559.3
27.5°	4706.3	4713.8	4671.6	4622.5	4648.2	4750.8	5056.4	5156.0	5614.8	5168.1	3585.0
30°	5001.3	5004.4	4933.4	4874.6	4858.0	4934.2	5187.7	5280.5	5749.1	5411.8	3623.5
32.5°	5303.2	5325.8	5234.5	5151.5	5123.6	5147.0	5381.7	5471.4	5909.1	5673.7	3685.4
35°	5713.7	5717.4	5608.0	5506.9	5414.9	5445.0	5629.9	5694.8	6130.2	5976.3	3772.9
37.5°	6226.0	6260.7	6109.8	5921.2	5808.0	5764.2	5930.2	6001.2	6440.3	6347.5	3904.9
40°	6795.0	6807.8	6678.8	6561.1	6354.3	6227.5	6342.2	6419.2	6822.9	6790.4	4058.1
42.5°	7152.6	7180.6	7190.4	7178.3	7022.9	6810.1	6853.8	6890.1	7275.6	7206.2	4215.1
45°	7273.4	7314.9	7455.2	7752.5	7769.1	7559.4	7457.5	7492.2	7769.1	7625.8	4365.2
47.5°	7073.4	7144.3	7403.2	8012.9	8469.4	8485.2	8178.1	8101.9	8218.9	7973.6	4473.9
50°	6556.5	6571.6	6967.8	7850.6	8797.6	9370.4	9052.7	8910.8	8646.0	8230.9	4548.6
52.5°	5756.7	5774.0	6106.0	7096.8	8595.4	9989.1	10075.9	9822.3	9079.8	8430.9	4597.6
55°	4273.2	4373.5	4738.8	5696.3	7637.1	9931.0	10889.3	10745.2	9604.3	8589.4	4674.6
57.5°	2627.4	2535.4	2968.5	3875.5	5743.8	9132.7	11140.6	11187.4	10181.5	8722.2	4803.6
60°	1208.8	1226.9	1405.8	1998.9	3501.2	7144.3	10493.2	10789.0	10500.7	8717.6	4836.1
62.5°	833.1	816.5	771.2	877.6	1596.7	4518.4	8863.3	9364.3	9860.8	8446.7	4707.1
65°	744.8	728.2	640.6	611.2	733.4	1969.4	6443.3	7075.7	8302.6	7763.1	4385.6
67.5°	695.7	673.1	582.5	525.2	523.7	784.0	3799.3	4560.7	6158.1	6563.3	3800.1
70°	644.4	626.3	536.5	473.1	446.0	492.7	1669.9	2186.0	3998.5	4729.7	2960.2
72.5°	593.1	572.0	491.2	423.3	387.9	369.0	639.9	832.3	2259.2	2835.7	1814.8
75°	518.4	507.8	439.2	383.3	344.8	298.1	406.0	463.3	1080.6	1302.4	910.8
77.5°	453.5	442.2	390.1	335.0	307.1	242.2	288.2	314.7	455.8	528.2	411.2
80°	332.0	343.3	329.0	295.8	273.9	190.2	193.9	215.8	270.9	299.6	251.3
82.5°	210.5	231.7	253.5	227.9	207.5	150.2	134.3	142.6	184.9	196.2	111.7
85°	88.3	89.8	147.1	138.8	118.5	89.0	80.7	85.3	98.8	103.4	52.1
87.5°	34.0	33.2	52.1	48.3	37.0	25.7	25.7	28.7	39.2	36.2	16.6
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°	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1	2896.1
2.5°	2905.9	2852.3	2745.9	2613.9	2517.3	2408.6	2312.8	2244.1	2218.5	2206.4	2183.7
5°	2903.6	2798.0	2577.6	2346.7	2161.1	1971.0	1810.2	1706.1	1697.0	1627.6	1620.8
7.5°	2904.4	2742.9	2392.0	2052.5	1769.5	1574.8	1442.0	1407.3	1365.8	1355.2	1360.5
10°	2906.6	2672.7	2192.8	1761.2	1487.3	1359.7	1309.9	1296.4	1297.9	1302.4	1303.2
12.5°	2909.7	2604.8	1986.0	1540.1	1328.8	1276.0	1270.7	1282.8	1295.6	1305.4	1307.7
15°	2913.4	2527.1	1784.6	1362.0	1249.6	1245.1	1262.4	1282.8	1300.9	1315.2	1317.5
17.5°	2908.9	2436.5	1615.6	1252.6	1205.8	1227.7	1256.4	1282.0	1298.6	1312.2	1313.7
20°	2898.3	2335.4	1452.6	1175.6	1178.7	1214.1	1245.1	1269.2	1287.3	1294.1	1299.4
22.5°	2857.6	2214.7	1310.7	1116.0	1146.2	1195.3	1232.2	1246.6	1226.2	1211.9	1215.6
25°	2788.2	2057.7	1178.7	1067.7	1116.8	1168.8	1206.6	1171.9	1155.3	1149.2	1152.2
27.5°	2701.4	1885.7	1079.0	1017.2	1079.0	1139.4	1128.8	1122.8	1115.3	1105.5	1107.7
30°	2607.8	1717.4	994.5	977.9	1038.3	1073.0	1077.5	1087.3	1079.0	1064.0	1070.0
32.5°	2521.0	1559.0	930.4	944.7	1009.6	1004.3	1038.3	1049.6	1011.1	960.6	962.8
35°	2447.1	1411.8	882.1	912.3	960.6	962.8	996.8	957.6	916.1	891.9	893.4
37.5°	2391.3	1297.1	850.4	884.4	897.9	926.6	908.5	888.1	882.9	866.3	867.0
40°	2358.1	1196.8	830.0	862.5	860.2	879.8	821.7	842.1	849.7	844.4	845.1
42.5°	2324.9	1125.8	808.9	832.3	831.5	793.1	780.2	797.6	817.2	819.5	818.0
45°	2298.4	1070.7	787.0	786.3	801.4	741.0	737.2	747.8	775.7	789.3	788.5
47.5°	2269.0	1024.7	753.8	732.7	737.2	708.5	702.5	707.0	741.0	762.9	768.9
50°	2232.0	978.7	712.3	683.6	664.8	678.4	679.9	680.6	714.6	739.5	744.8
52.5°	2202.6	944.0	664.8	643.7	621.0	651.2	662.5	664.0	684.4	704.8	708.5
55°	2220.0	924.4	618.0	602.9	582.5	623.3	645.2	648.2	652.7	667.8	670.1
57.5°	2272.0	928.9	580.3	560.7	545.6	590.1	627.1	629.3	626.3	644.4	647.4
60°	2287.9	926.6	552.4	513.9	504.8	554.6	600.6	605.2	604.4	630.8	636.1
62.5°	2221.5	897.9	524.4	474.6	468.6	518.4	563.7	581.8	585.6	623.3	630.1
65°	2065.3	839.1	487.5	433.1	433.1	479.9	528.2	553.1	563.7	614.2	621.8
67.5°	1859.3	769.7	449.7	397.7	396.2	442.9	490.5	516.1	532.7	601.4	605.9
70°	1543.1	676.1	402.9	359.2	359.2	401.4	444.4	475.4	499.5	577.3	577.3
72.5°	1057.2	562.2	346.4	315.4	316.2	355.4	399.2	433.9	462.6	529.0	530.5
75°	668.6	439.2	284.5	268.6	271.6	308.6	353.9	390.1	447.5	522.9	525.2
77.5°	355.4	308.6	226.4	222.6	226.4	260.3	310.9	360.7	449.0	453.5	446.0
80°	230.1	218.8	178.8	171.3	172.8	209.8	276.9	342.6	360.7	365.2	348.6
82.5°	125.3	138.8	126.8	119.2	119.2	163.7	236.2	272.4	258.8	215.1	205.2
85°	53.6	64.9	65.6	57.3	55.1	101.1	158.5	148.7	138.1	132.1	130.5
87.5°	15.1	21.1	21.1	15.8	12.1	27.9	31.7	9.1	0.0	0.8	1.5
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)