

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: P451847

Luminaire Tested: **GALN-SA2D-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451847  
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-SA2D-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14306 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

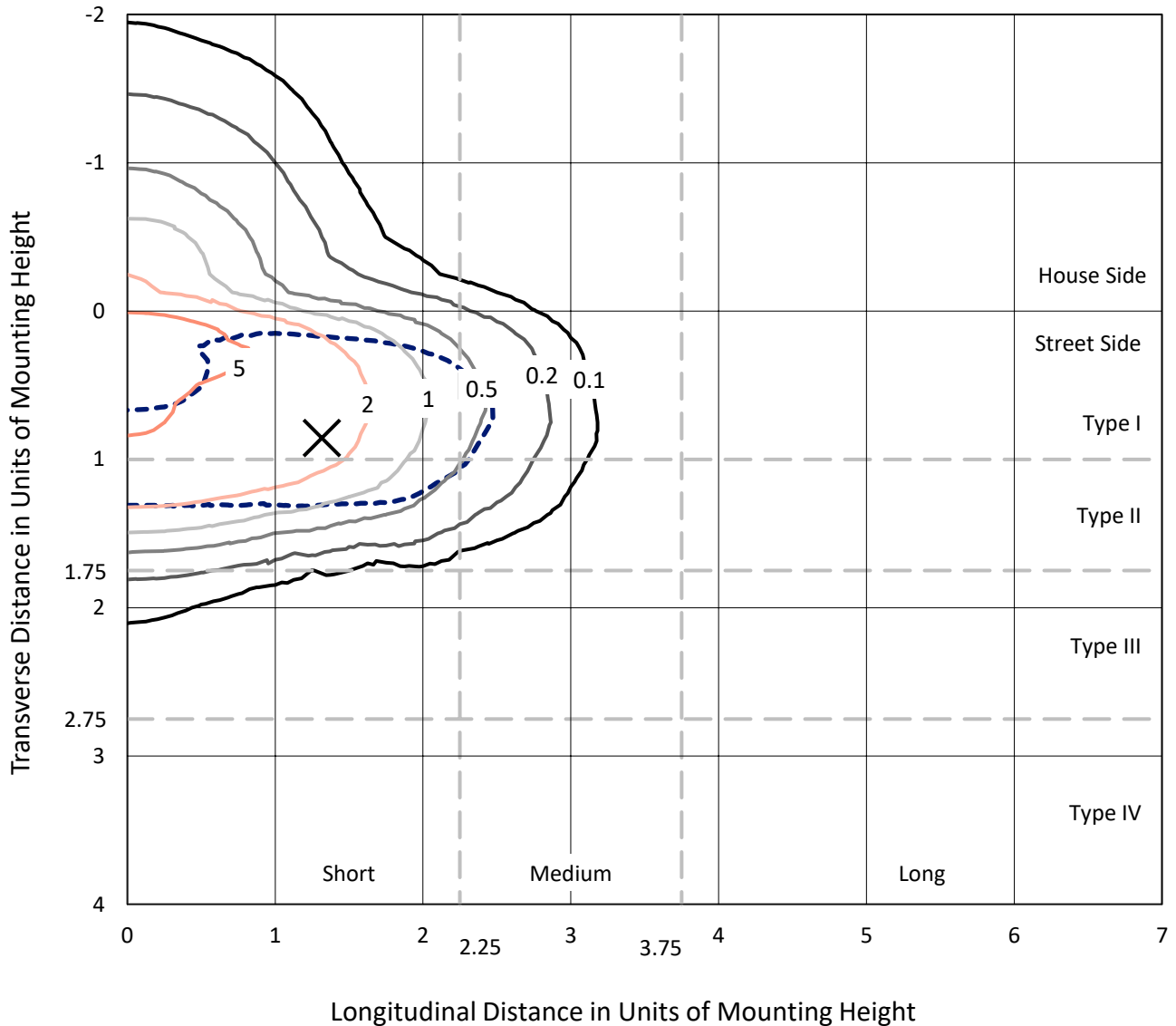
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

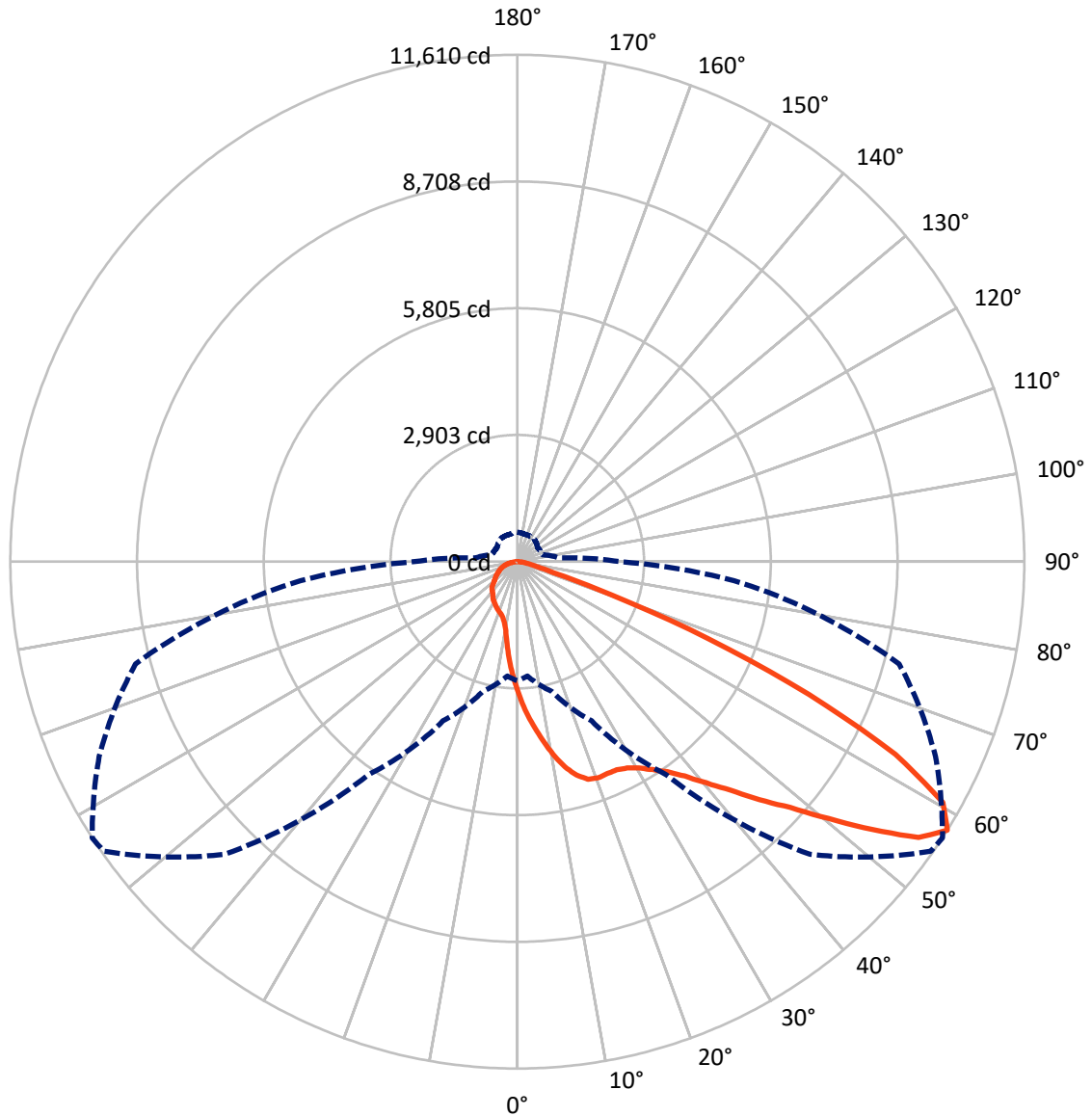
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2175.5	0.0	2175.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	12130.5	0.0	12130.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	14306.0	0.0	14306.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.9	2.0
10°-20°	851.3	6.0
20°-30°	1413.6	9.9
30°-40°	2129.3	14.9
40°-50°	3196.9	22.3
50°-60°	3583.3	25.0
60°-70°	2097.1	14.7
70°-80°	620.3	4.3
80°-90°	125.4	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°	14306.0	100.0
0°-180°	14306.0	100.0

**Coefficient of Utilization**



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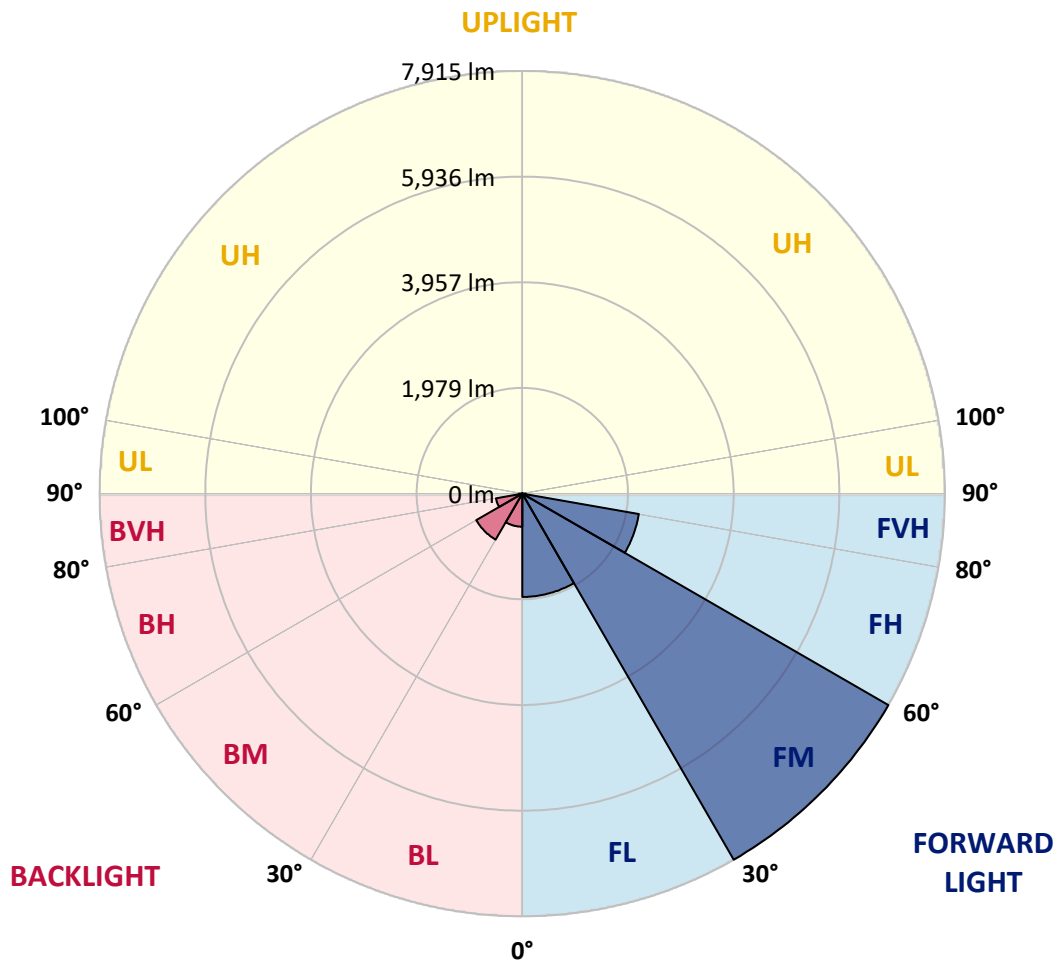
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1933.8	13.5			
FM	(30°-60°)	7914.7	55.3			
FH	(60°-80°)	2216.9	15.5			G2/5000
FVH	(80°-90°)	65.1	0.5			G1/100
BL	(0°-30°)	619.9	4.3	B2/1000		
BM	(30°-60°)	994.7	7.0	B1/1000		
BH	(60°-80°)	500.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	60.3	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°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	3734.6	3693.9	3661.8	3633.6	3596.8	3497.3	3397.9	3396.3	3317.2	3195.0	3069.7
5°	4343.1	4288.2	4295.3	4207.6	4119.9	3975.8	3765.1	3754.2	3585.8	3357.1	3124.6
7.5°	4739.3	4740.1	4718.2	4668.0	4573.3	4409.6	4170.8	4116.7	3882.6	3535.7	3187.2
10°	4718.9	4740.1	4776.9	4820.0	4848.9	4768.3	4550.6	4484.8	4180.2	3751.8	3256.9
12.5°	4448.0	4480.9	4533.3	4641.4	4816.0	4949.2	4874.8	4821.5	4524.7	3967.2	3333.6
15°	4278.8	4298.4	4327.4	4400.2	4588.2	4906.9	5099.5	5071.3	4849.7	4210.7	3419.8
17.5°	4227.2	4246.7	4256.1	4300.8	4434.7	4761.2	5188.0	5238.1	5137.9	4434.7	3506.7
20°	4278.8	4288.2	4288.2	4314.9	4419.8	4675.9	5184.1	5285.1	5374.4	4703.3	3588.2
22.5°	4414.3	4418.2	4412.8	4422.1	4500.5	4699.4	5147.3	5272.6	5565.5	4931.2	3651.6
25°	4634.4	4640.6	4604.6	4582.7	4639.9	4802.7	5167.7	5282.8	5715.0	5148.9	3693.9
27.5°	4884.2	4892.0	4848.2	4797.3	4823.9	4930.4	5247.5	5350.9	5827.0	5363.4	3720.5
30°	5190.4	5193.5	5119.9	5058.8	5041.6	5120.7	5383.8	5480.1	5966.4	5616.4	3760.4
32.5°	5503.6	5527.1	5432.3	5346.2	5317.2	5341.5	5585.0	5678.2	6132.4	5888.1	3824.6
35°	5929.6	5933.5	5820.0	5715.0	5619.5	5650.8	5842.7	5910.0	6361.9	6202.1	3915.5
37.5°	6461.3	6497.4	6340.7	6145.0	6027.5	5982.1	6154.4	6228.0	6683.7	6587.4	4052.5
40°	7051.8	7065.1	6931.2	6809.0	6594.5	6462.9	6581.9	6661.8	7080.8	7047.1	4211.5
42.5°	7423.0	7452.0	7462.1	7449.6	7288.3	7067.5	7112.9	7150.5	7550.6	7478.6	4374.4
45°	7548.3	7591.3	7737.0	8045.5	8062.8	7845.1	7739.3	7775.4	8062.8	7914.0	4530.2
47.5°	7340.8	7414.4	7683.0	8315.7	8789.5	8805.9	8487.2	8408.1	8529.5	8275.0	4643.0
50°	6804.3	6820.0	7231.1	8147.3	9130.1	9724.5	9394.8	9247.6	8972.7	8542.0	4720.5
52.5°	5974.2	5992.3	6336.8	7365.0	8920.3	10366.6	10456.7	10193.6	9423.0	8749.5	4771.4
55°	4434.7	4538.8	4917.9	5911.6	7925.7	10306.3	11300.9	11151.3	9967.3	8914.0	4851.3
57.5°	2726.7	2631.2	3080.7	4022.0	5960.9	9477.8	11561.6	11610.2	10566.3	9051.8	4985.2
60°	1254.5	1273.3	1458.9	2074.4	3633.6	7414.4	10889.7	11196.7	10897.6	9047.1	5018.9
62.5°	864.5	847.3	800.3	910.7	1657.0	4689.2	9198.3	9718.2	10233.5	8766.0	4885.0
65°	772.9	755.7	664.8	634.3	761.2	2043.9	6686.9	7343.1	8616.4	8056.5	4551.4
67.5°	722.0	698.5	604.6	545.0	543.5	813.6	3942.9	4733.0	6390.9	6811.4	3943.7
70°	668.8	650.0	556.8	491.0	462.8	511.4	1733.0	2268.6	4149.6	4908.5	3072.1
72.5°	615.5	593.6	509.8	439.3	402.5	382.9	664.1	863.8	2344.6	2942.9	1883.3
75°	538.0	527.0	455.8	397.8	357.9	309.3	421.3	480.8	1121.4	1351.6	945.2
77.5°	470.6	458.9	404.9	347.7	318.7	251.4	299.1	326.6	473.0	548.2	426.8
80°	344.6	356.3	341.4	307.0	284.3	197.3	201.3	224.0	281.1	310.9	260.8
82.5°	218.5	240.4	263.1	236.5	215.4	155.8	139.4	148.0	191.9	203.6	115.9
85°	91.6	93.2	152.7	144.1	122.9	92.4	83.8	88.5	102.6	107.3	54.0
87.5°	35.2	34.5	54.0	50.1	38.4	26.6	26.6	29.8	40.7	37.6	17.2
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°	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5	3005.5
2.5°	3015.7	2960.1	2849.7	2712.6	2612.4	2499.6	2400.2	2328.9	2302.3	2289.8	2266.3
5°	3013.4	2903.7	2675.1	2435.4	2242.8	2045.4	1878.7	1770.6	1761.2	1689.1	1682.1
7.5°	3014.1	2846.6	2482.4	2130.0	1836.4	1634.3	1496.5	1460.5	1417.4	1406.4	1411.9
10°	3016.5	2773.7	2275.7	1827.7	1543.5	1411.1	1359.5	1345.4	1346.9	1351.6	1352.4
12.5°	3019.6	2703.3	2061.1	1598.3	1379.0	1324.2	1318.7	1331.3	1344.6	1354.8	1357.1
15°	3023.5	2622.6	1852.0	1413.5	1296.8	1292.1	1310.1	1331.3	1350.1	1364.9	1367.3
17.5°	3018.8	2528.6	1676.6	1299.9	1251.4	1274.1	1303.9	1330.5	1347.7	1361.8	1363.4
20°	3007.9	2423.7	1507.5	1220.1	1223.2	1260.0	1292.1	1317.2	1336.0	1343.0	1348.5
22.5°	2965.6	2298.4	1360.2	1158.2	1189.5	1240.4	1278.8	1293.7	1272.5	1257.7	1261.6
25°	2893.5	2135.5	1223.2	1108.1	1159.0	1213.0	1252.2	1216.1	1198.9	1192.7	1195.8
27.5°	2803.5	1957.0	1119.8	1055.6	1119.8	1182.5	1171.5	1165.2	1157.4	1147.2	1149.6
30°	2706.4	1782.3	1032.1	1014.9	1077.5	1113.6	1118.3	1128.4	1119.8	1104.2	1110.4
32.5°	2616.3	1617.9	965.6	980.4	1047.8	1042.3	1077.5	1089.3	1049.4	996.9	999.2
35°	2539.6	1465.2	915.4	946.8	996.9	999.2	1034.5	993.8	950.7	925.6	927.2
37.5°	2481.6	1346.1	882.6	917.8	931.9	961.6	942.8	921.7	916.2	899.0	899.8
40°	2447.2	1242.0	861.4	895.1	892.7	913.1	852.8	873.9	881.8	876.3	877.1
42.5°	2412.7	1168.4	839.5	863.8	863.0	823.0	809.7	827.7	848.1	850.4	848.9
45°	2385.3	1111.2	816.8	816.0	831.6	769.0	765.1	776.0	805.0	819.1	818.3
47.5°	2354.8	1063.4	782.3	760.4	765.1	735.3	729.1	733.8	769.0	791.7	798.0
50°	2316.4	1015.7	739.2	709.5	689.9	704.0	705.6	706.4	741.6	767.4	772.9
52.5°	2285.9	979.7	689.9	668.0	644.5	675.8	687.6	689.1	710.3	731.4	735.3
55°	2303.9	959.3	641.4	625.7	604.6	646.8	669.5	672.7	677.4	693.0	695.4
57.5°	2357.9	964.0	602.2	581.8	566.2	612.4	650.8	653.1	650.0	668.8	671.9
60°	2374.4	961.6	573.2	533.3	523.9	575.6	623.3	628.0	627.3	654.7	660.2
62.5°	2305.4	931.9	544.3	492.6	486.3	538.0	585.0	603.8	607.7	646.8	653.9
65°	2143.3	870.8	505.9	449.5	449.5	498.0	548.2	574.0	585.0	637.4	645.3
67.5°	1929.6	798.8	466.7	412.7	411.1	459.7	509.0	535.6	552.9	624.1	628.8
70°	1601.4	701.7	418.2	372.8	372.8	416.6	461.2	493.4	518.4	599.1	599.1
72.5°	1097.1	583.4	359.4	327.3	328.1	368.8	414.3	450.3	480.0	549.0	550.5
75°	693.8	455.8	295.2	278.8	281.9	320.3	367.3	404.9	464.4	542.7	545.0
77.5°	368.8	320.3	234.9	231.0	234.9	270.2	322.6	374.3	465.9	470.6	462.8
80°	238.8	227.1	185.6	177.8	179.3	217.7	287.4	355.5	374.3	379.0	361.8
82.5°	130.0	144.1	131.6	123.7	123.7	169.9	245.1	282.7	268.6	223.2	213.0
85°	55.6	67.3	68.1	59.5	57.2	104.9	164.5	154.3	143.3	137.0	135.5
87.5°	15.7	21.9	21.9	16.4	12.5	29.0	32.9	9.4	0.0	0.8	1.6
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)