

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: P453906

Luminaire Tested: **GALN-SA5A-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453906  
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-SA5A-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19340 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

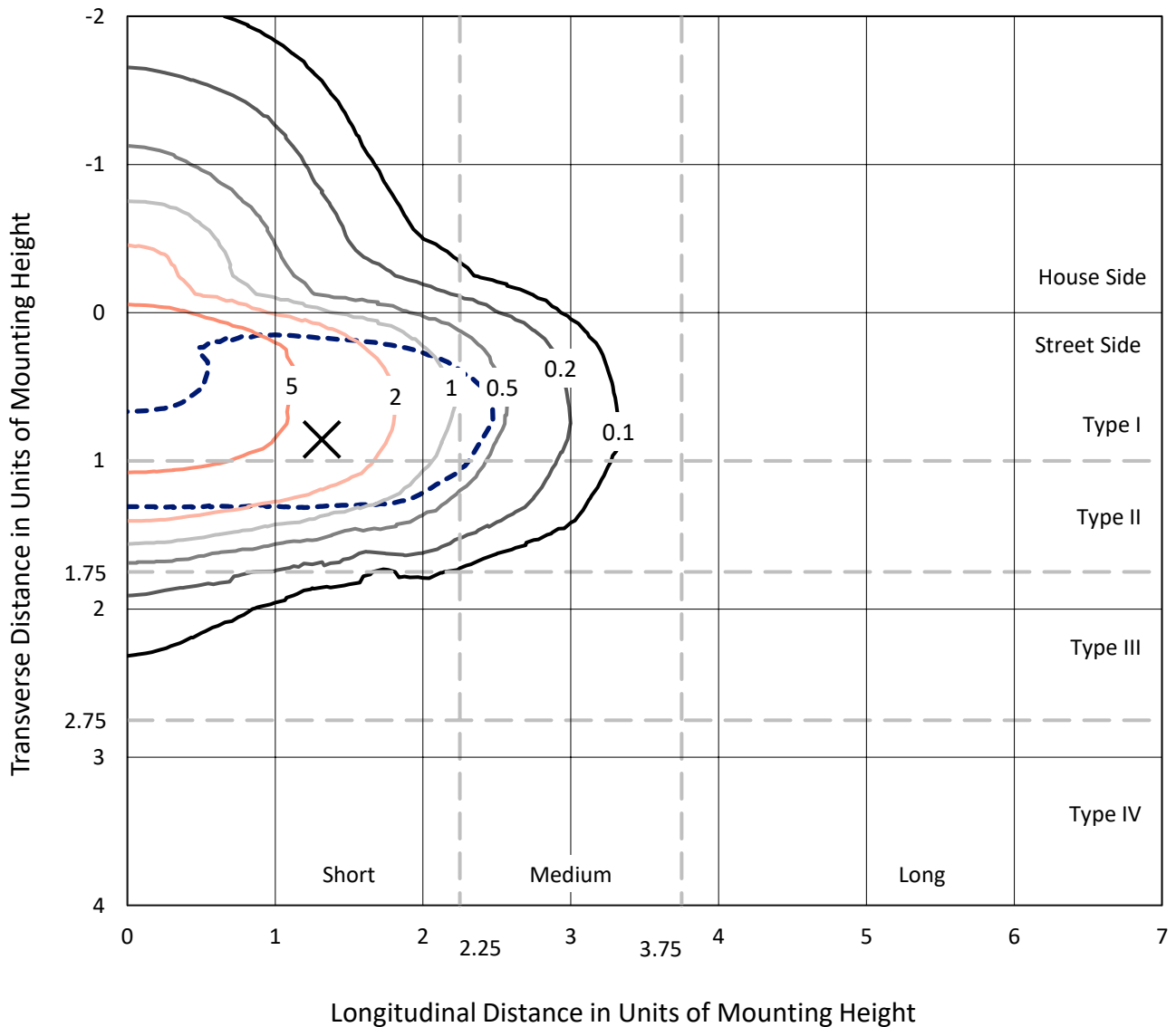
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

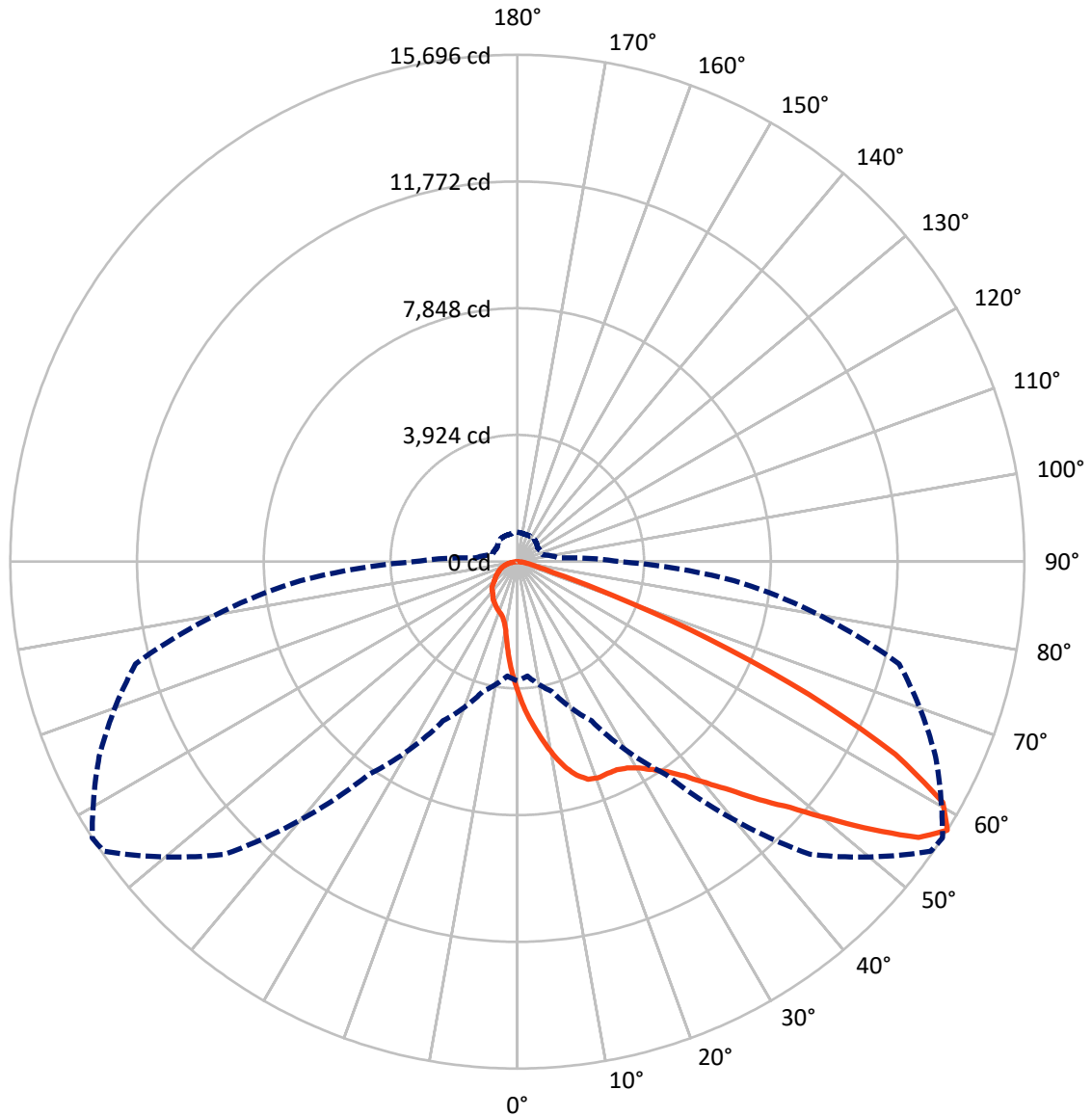
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	2941.1	0.0	2941.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	16398.9	0.0	16398.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	19340.0	0.0	19340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.5	2.0
10°-20°	1150.8	6.0
20°-30°	1911.0	9.9
30°-40°	2878.5	14.9
40°-50°	4321.8	22.3
50°-60°	4844.2	25.0
60°-70°	2835.1	14.7
70°-80°	838.6	4.3
80°-90°	169.5	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°	19340.0	100.0
0°-180°	19340.0	100.0

**Coefficient of Utilization**

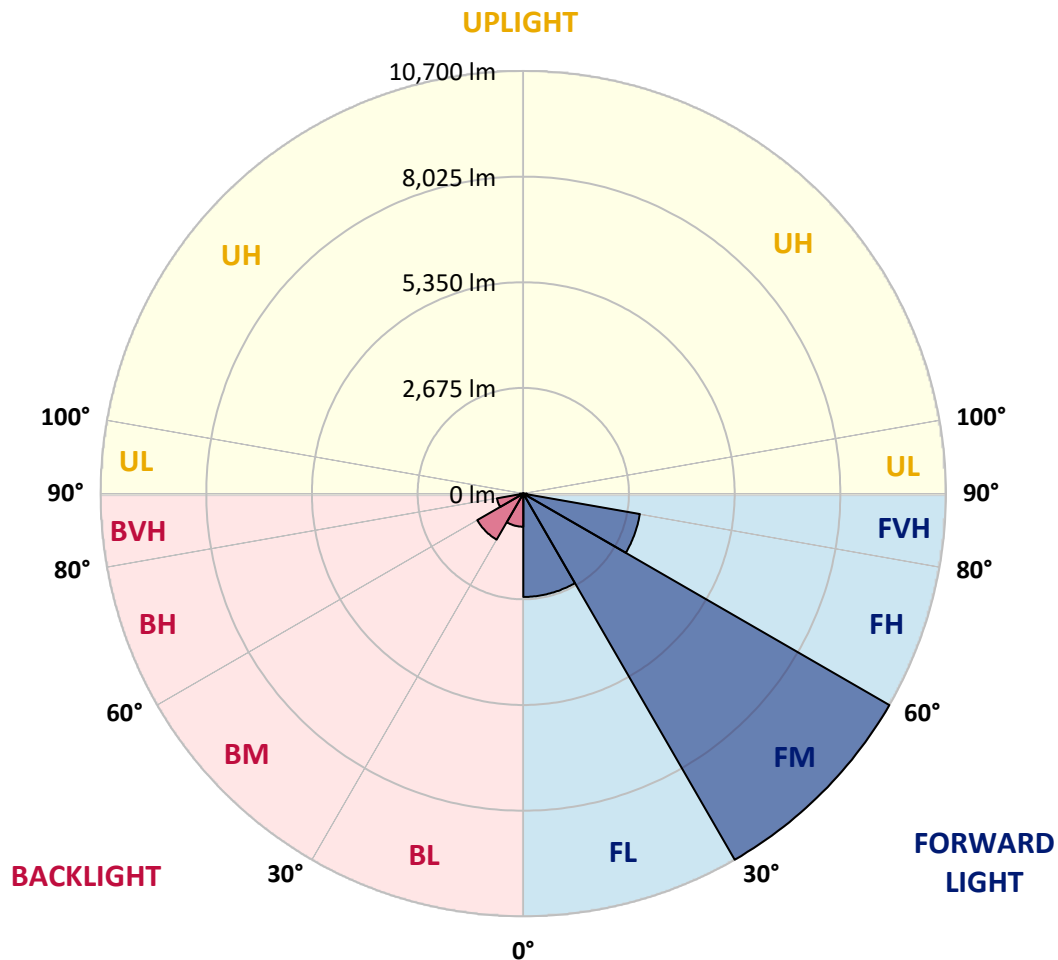


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2614.3	13.5			
FM	(30°-60°)	10699.7	55.3			
FH	(60°-80°)	2996.9	15.5			G2/5000
FVH	(80°-90°)	87.9	0.5			G1/100
BL	(0°-30°)	838.0	4.3	B2/1000		
BM	(30°-60°)	1344.8	7.0	B2/2500		
BH	(60°-80°)	676.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	81.6	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°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	5048.7	4993.7	4950.3	4912.2	4862.4	4727.9	4593.5	4591.4	4484.5	4319.3	4149.9
5°	5871.3	5797.2	5806.7	5688.1	5569.6	5374.8	5090.0	5075.2	4847.6	4538.4	4224.0
7.5°	6407.0	6408.0	6378.4	6310.6	6182.5	5961.3	5638.4	5565.3	5248.8	4779.8	4308.7
10°	6379.4	6408.0	6457.8	6516.0	6555.2	6446.1	6151.8	6062.9	5651.1	5072.0	4402.9
12.5°	6013.2	6057.6	6128.5	6274.6	6510.7	6690.7	6590.1	6518.1	6116.9	5363.1	4506.7
15°	5784.5	5810.9	5850.1	5948.6	6202.7	6633.5	6894.0	6855.8	6556.2	5692.4	4623.1
17.5°	5714.6	5741.1	5753.8	5814.1	5995.2	6436.6	7013.6	7081.3	6945.8	5995.2	4740.7
20°	5784.5	5797.2	5797.2	5833.2	5975.0	6321.2	7008.3	7144.9	7265.5	6358.3	4850.8
22.5°	5967.6	5972.9	5965.5	5978.2	6084.1	6353.0	6958.5	7127.9	7523.9	6666.3	4936.5
25°	6265.1	6273.6	6224.9	6195.2	6272.5	6492.7	6986.1	7141.7	7726.1	6960.6	4993.7
27.5°	6602.8	6613.4	6554.1	6485.3	6521.3	6665.3	7094.0	7233.8	7877.4	7250.7	5029.7
30°	7016.8	7021.0	6921.5	6838.9	6815.6	6922.5	7278.2	7408.5	8065.9	7592.7	5083.7
32.5°	7440.2	7472.0	7343.9	7227.4	7188.3	7221.1	7550.3	7676.3	8290.3	7960.0	5170.5
35°	8016.1	8021.4	7867.9	7726.1	7596.9	7639.2	7898.6	7989.7	8600.5	8384.5	5293.3
37.5°	8735.0	8783.6	8571.9	8307.3	8148.5	8087.1	8320.0	8419.5	9035.6	8905.4	5478.5
40°	9533.2	9551.2	9370.1	9205.0	8914.9	8737.1	8898.0	9006.0	9572.3	9526.8	5693.4
42.5°	10035.0	10074.1	10087.9	10071.0	9852.9	9554.3	9615.8	9666.6	10207.5	10110.1	5913.6
45°	10204.4	10262.6	10459.5	10876.6	10899.9	10605.6	10462.7	10511.4	10899.9	10698.8	6124.3
47.5°	9923.8	10023.3	10386.5	11241.8	11882.3	11904.6	11473.7	11366.8	11530.9	11186.8	6276.8
50°	9198.6	9219.8	9775.6	11014.2	12342.8	13146.4	12700.7	12501.6	12130.1	11547.8	6381.6
52.5°	8076.5	8100.8	8566.6	9956.6	12059.1	14014.5	14136.2	13780.5	12738.8	11828.3	6450.4
55°	5995.2	6136.0	6648.3	7991.8	10714.6	13932.9	15277.4	15075.2	13474.5	12050.7	6558.4
57.5°	3686.2	3557.1	4164.7	5437.2	8058.5	12812.9	15630.0	15695.6	14284.4	12237.0	6739.4
60°	1696.0	1721.4	1972.3	2804.4	4912.2	10023.3	14721.6	15136.6	14732.2	12230.6	6784.9
62.5°	1168.8	1145.5	1081.9	1231.2	2240.1	6339.2	12434.9	13137.9	13834.5	11850.6	6603.9
65°	1044.9	1021.6	898.8	857.5	1029.0	2763.1	9039.8	9927.0	11648.4	10891.4	6152.9
67.5°	976.1	944.3	817.3	736.8	734.7	1099.9	5330.3	6398.5	8639.7	9208.2	5331.4
70°	904.1	878.7	752.7	663.8	625.7	691.3	2342.8	3066.9	5609.8	6635.6	4153.1
72.5°	832.1	802.5	689.2	593.9	544.1	517.7	897.7	1167.7	3169.6	3978.4	2546.1
75°	727.3	712.5	616.1	537.8	483.8	418.2	569.6	650.0	1516.0	1827.2	1277.8
77.5°	636.3	620.4	547.3	470.0	430.9	339.8	404.4	441.5	639.4	741.1	577.0
80°	465.8	481.7	461.6	415.0	384.3	266.8	272.1	302.8	380.1	420.3	352.5
82.5°	295.4	325.0	355.7	319.7	291.1	210.7	188.4	200.1	259.4	275.2	156.7
85°	123.9	126.0	206.4	194.8	166.2	124.9	113.3	119.6	138.7	145.0	73.0
87.5°	47.6	46.6	73.0	67.8	51.9	36.0	36.0	40.2	55.0	50.8	23.3
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°	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1	4063.1
2.5°	4076.9	4001.7	3852.4	3667.2	3531.7	3379.2	3244.8	3148.4	3112.4	3095.5	3063.7
5°	4073.7	3925.5	3616.4	3292.4	3032.0	2765.2	2539.7	2393.6	2380.9	2283.5	2274.0
7.5°	4074.8	3848.2	3355.9	2879.5	2482.5	2209.4	2023.1	1974.4	1916.2	1901.3	1908.8
10°	4077.9	3749.8	3076.4	2470.9	2086.6	1907.7	1837.8	1818.8	1820.9	1827.2	1828.3
12.5°	4082.2	3654.5	2786.4	2160.7	1864.3	1790.2	1782.8	1799.7	1817.7	1831.5	1834.6
15°	4087.5	3545.4	2503.7	1910.9	1753.1	1746.8	1771.1	1799.7	1825.1	1845.2	1848.4
17.5°	4081.1	3418.4	2266.6	1757.4	1691.7	1722.4	1762.7	1798.7	1821.9	1841.0	1843.1
20°	4066.3	3276.5	2037.9	1649.4	1653.6	1703.4	1746.8	1780.7	1806.1	1815.6	1823.0
22.5°	4009.1	3107.1	1838.9	1565.7	1608.1	1676.9	1728.8	1748.9	1720.3	1700.2	1705.5
25°	3911.7	2886.9	1653.6	1498.0	1566.8	1639.9	1692.8	1644.1	1620.8	1612.3	1616.6
27.5°	3790.0	2645.6	1513.9	1427.1	1513.9	1598.6	1583.7	1575.3	1564.7	1550.9	1554.1
30°	3658.7	2409.5	1395.3	1372.0	1456.7	1505.4	1511.8	1525.5	1513.9	1492.7	1501.2
32.5°	3537.0	2187.2	1305.3	1325.4	1416.5	1409.1	1456.7	1472.6	1418.6	1347.7	1350.8
35°	3433.2	1980.7	1237.6	1279.9	1347.7	1350.8	1398.5	1343.4	1285.2	1251.3	1253.4
37.5°	3354.9	1819.8	1193.1	1240.7	1259.8	1300.0	1274.6	1246.0	1238.6	1215.3	1216.4
40°	3308.3	1679.0	1164.5	1210.0	1206.9	1234.4	1152.9	1181.5	1192.0	1184.6	1185.7
42.5°	3261.7	1579.5	1134.9	1167.7	1166.6	1112.6	1094.6	1119.0	1146.5	1149.7	1147.6
45°	3224.7	1502.2	1104.2	1103.1	1124.3	1039.6	1034.3	1049.1	1088.3	1107.4	1106.3
47.5°	3183.4	1437.7	1057.6	1028.0	1034.3	994.1	985.6	992.0	1039.6	1070.3	1078.8
50°	3131.5	1373.1	999.4	959.1	932.7	951.7	953.8	954.9	1002.5	1037.5	1044.9
52.5°	3090.2	1324.4	932.7	903.0	871.3	913.6	929.5	931.6	960.2	988.8	994.1
55°	3114.6	1296.9	867.0	845.9	817.3	874.4	905.1	909.4	915.7	936.9	940.1
57.5°	3187.6	1303.2	814.1	786.6	765.4	827.9	879.7	882.9	878.7	904.1	908.3
60°	3209.8	1300.0	774.9	720.9	708.2	778.1	842.7	849.0	848.0	885.0	892.4
62.5°	3116.7	1259.8	735.8	665.9	657.4	727.3	790.8	816.2	821.5	874.4	884.0
65°	2897.5	1177.2	683.9	607.7	607.7	673.3	741.1	776.0	790.8	861.7	872.3
67.5°	2608.5	1079.8	631.0	557.9	555.8	621.4	688.1	724.1	747.4	843.7	850.1
70°	2164.9	948.6	565.3	503.9	503.9	563.2	623.5	667.0	700.8	809.9	809.9
72.5°	1483.2	788.7	485.9	442.5	443.6	498.6	560.0	608.7	649.0	742.1	744.2
75°	938.0	616.1	399.1	376.9	381.1	433.0	496.5	547.3	627.8	733.6	736.8
77.5°	498.6	433.0	317.6	312.3	317.6	365.2	436.2	506.0	629.9	636.3	625.7
80°	322.9	307.0	250.9	240.3	242.4	294.3	388.5	480.6	506.0	512.4	489.1
82.5°	175.7	194.8	177.9	167.3	167.3	229.7	331.4	382.2	363.1	301.7	288.0
85°	75.2	91.0	92.1	80.5	77.3	141.9	222.3	208.6	193.7	185.3	183.1
87.5°	21.2	29.6	29.6	22.2	16.9	39.2	44.5	12.7	0.0	1.1	2.1
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)