

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: P451861

Luminaire Tested: **GALN-SA2D-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14249 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

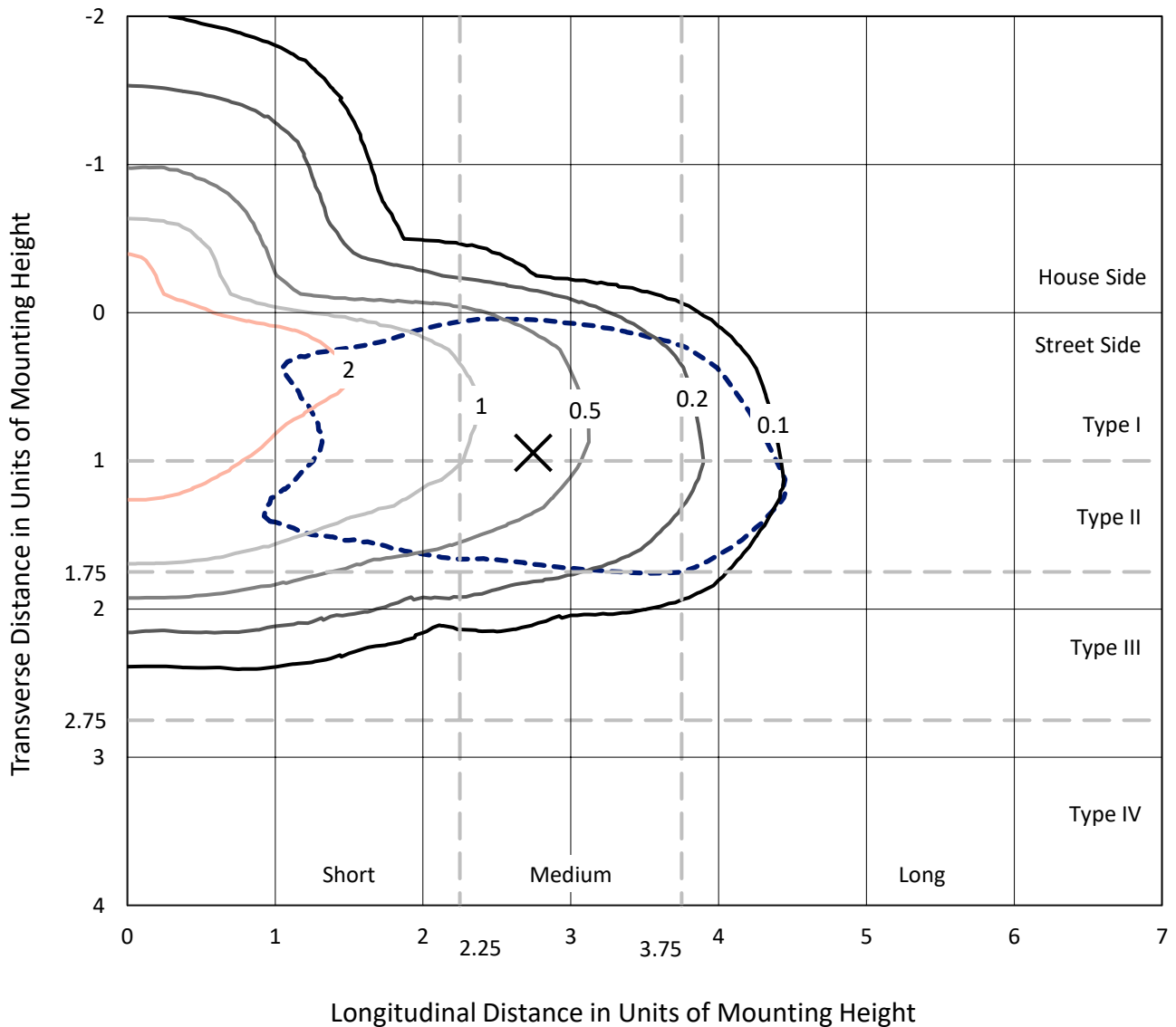
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

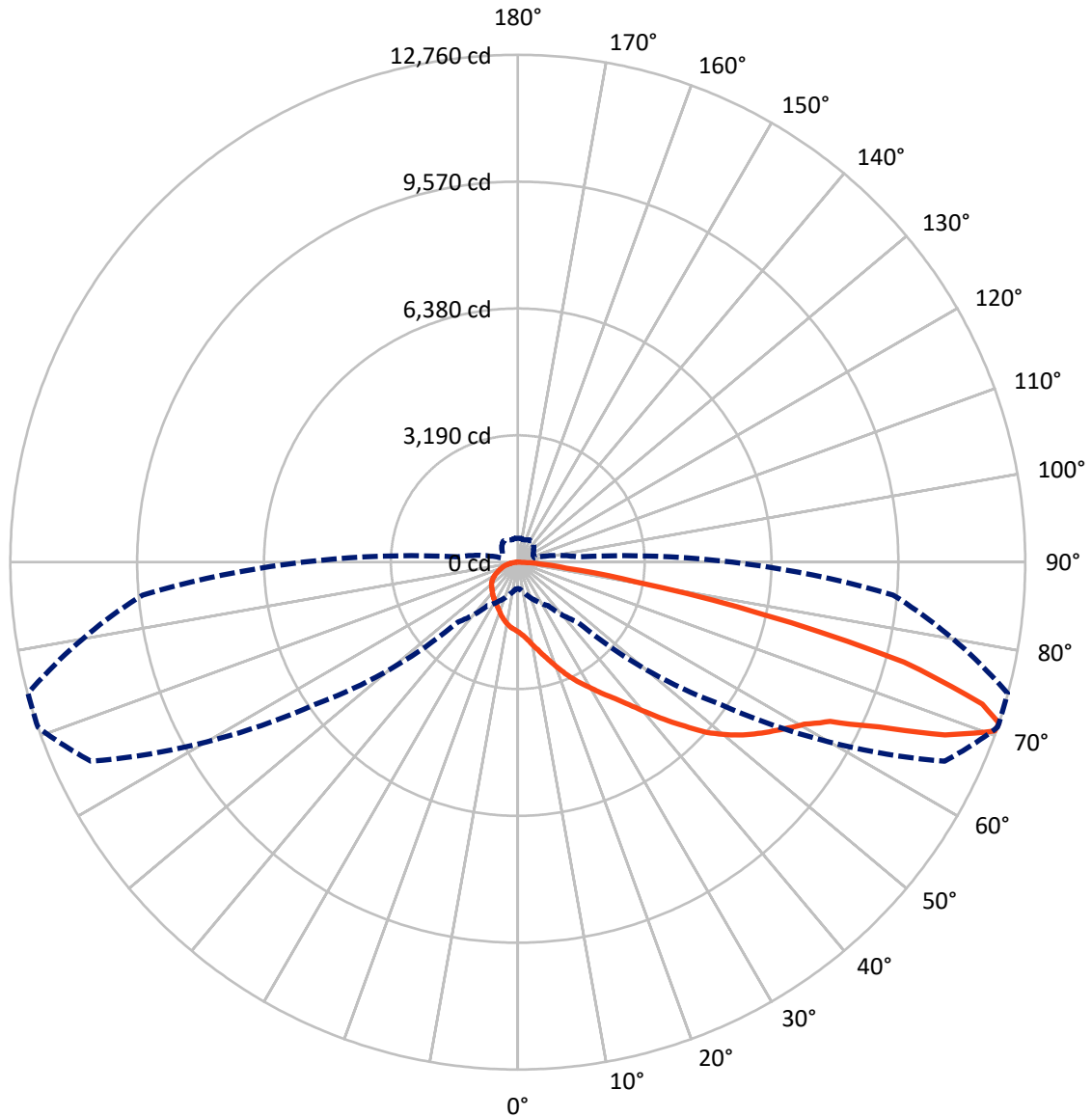
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.6	0.0	2562.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11686.4	0.0	11686.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	14249.0	0.0	14249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	1.2
10°-20°	570.5	4.0
20°-30°	997.0	7.0
30°-40°	1482.8	10.4
40°-50°	2184.8	15.3
50°-60°	3058.7	21.5
60°-70°	3421.1	24.0
70°-80°	2089.7	14.7
80°-90°	268.8	1.9
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°	14249.0	100.0
0°-180°	14249.0	100.0

Coefficient of Utilization



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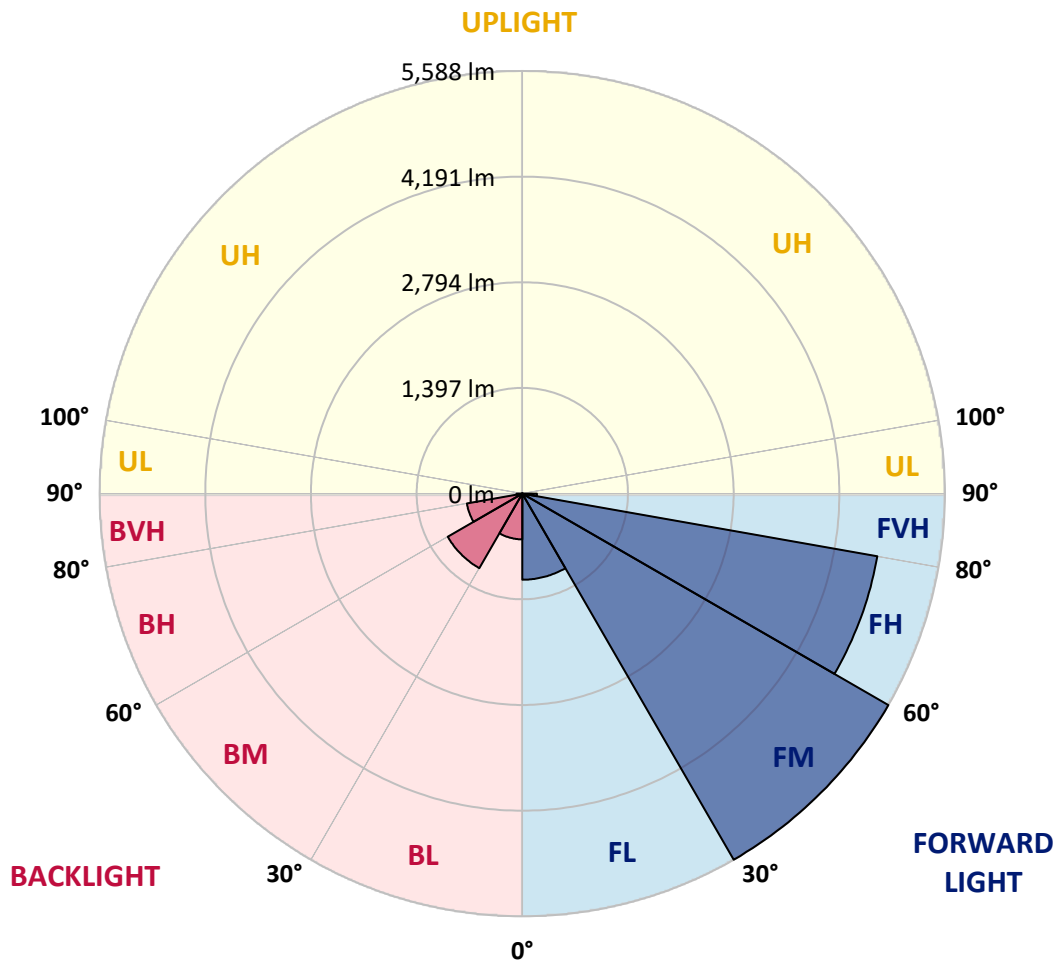
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.5	8.0			
FM (30°-60°)	5588.2	39.2			
FH (60°-80°)	4766.2	33.4			G2/5000
FVH (80°-90°)	193.4	1.4			G2/225
BL (0°-30°)	604.5	4.2	B2/1000		
BM (30°-60°)	1138.2	8.0	B2/2500		
BH (60°-80°)	744.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	75.4	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8
2.5°	1941.4	1932.0	1932.8	1919.5	1902.3	1883.5	1856.9	1833.4	1814.6	1803.6	1771.5
5°	2151.3	2141.9	2130.2	2101.2	2088.7	2042.5	1983.7	1930.5	1889.8	1867.0	1802.8
7.5°	2321.3	2318.9	2315.8	2299.3	2267.2	2203.0	2152.9	2060.5	2000.2	1957.1	1847.5
10°	2426.2	2430.1	2432.5	2435.6	2422.3	2388.6	2319.7	2203.0	2126.3	2071.4	1905.4
12.5°	2479.5	2483.4	2496.7	2525.7	2543.7	2539.8	2483.4	2369.0	2263.3	2191.3	1967.3
15°	2512.4	2518.6	2542.1	2580.5	2640.8	2679.2	2651.8	2546.0	2430.1	2344.8	2040.9
17.5°	2548.4	2555.4	2581.3	2636.1	2715.2	2798.2	2828.0	2737.1	2611.0	2509.2	2123.1
20°	2568.7	2578.1	2615.0	2687.0	2779.4	2900.0	2998.7	2950.9	2813.1	2700.3	2217.9
22.5°	2601.6	2609.5	2640.8	2717.5	2828.0	2979.1	3169.4	3159.2	3037.9	2892.2	2322.1
25°	2690.9	2703.4	2719.1	2765.3	2871.8	3059.8	3311.2	3381.7	3255.6	3092.7	2417.6
27.5°	2859.3	2869.5	2868.7	2875.0	2935.3	3129.5	3434.1	3601.7	3471.7	3295.5	2510.0
30°	3051.2	3055.1	3058.2	3044.1	3057.4	3200.8	3546.9	3819.4	3689.4	3503.8	2590.7
32.5°	3284.5	3292.4	3265.8	3229.7	3218.8	3306.5	3640.1	4037.2	3947.1	3715.3	2670.6
35°	3560.2	3580.6	3526.5	3463.1	3418.5	3458.4	3765.4	4259.6	4211.0	3985.5	2776.3
37.5°	3875.0	3900.1	3850.0	3725.5	3662.0	3673.0	3929.1	4534.5	4544.6	4293.3	2933.7
40°	4132.7	4165.6	4167.2	3991.0	3894.6	3907.2	4136.6	4830.5	4947.2	4673.9	3119.3
42.5°	4302.7	4334.8	4368.4	4265.1	4164.0	4235.3	4378.6	5151.6	5399.8	5135.9	3378.5
45°	4489.0	4518.0	4536.8	4489.8	4433.4	4618.3	4670.7	5493.0	5882.3	5652.0	3662.0
47.5°	4705.2	4737.3	4755.3	4710.7	4689.5	4954.2	4985.6	5811.8	6397.6	6153.2	3975.3
50°	4993.4	5017.7	5008.3	4980.1	4975.4	5211.9	5287.9	6110.2	6822.8	6692.8	4300.3
52.5°	5352.1	5381.1	5391.2	5351.3	5333.3	5395.9	5531.4	6381.9	7209.7	7156.5	4647.2
55°	5569.0	5615.2	5770.3	5832.9	5876.0	5634.0	5793.8	6681.9	7556.7	7645.2	5020.0
57.5°	5291.0	5350.5	5697.4	6010.7	6415.6	6229.2	6165.8	6995.1	7903.6	8119.0	5466.4
60°	4612.8	4626.1	5073.3	5650.5	6464.9	6994.4	6941.9	7493.2	8279.5	8596.7	6054.6
62.5°	3200.0	3228.2	3756.8	4677.8	5855.6	7270.0	8262.3	8353.1	8818.3	9311.7	6916.8
65°	1650.1	1613.3	2094.9	2940.0	4414.6	6615.3	9332.1	9934.3	9986.8	10430.0	8130.7
67.5°	1015.8	1032.2	1257.7	1716.7	2610.3	4807.8	9220.1	11866.4	11589.9	11802.9	9257.7
70°	762.8	783.2	938.2	1174.7	1591.4	2748.9	7414.9	12334.7	12720.8	12666.0	9600.7
71°	663.3	684.5	845.8	1069.0	1336.8	2121.6	6247.2	11844.4	12759.9	12750.5	9471.5
72.5°	565.4	578.8	704.8	905.3	1127.0	1487.2	4693.4	10622.7	12215.6	12528.1	9010.2
75°	444.0	454.2	510.6	690.7	887.3	913.2	2518.6	7963.9	10033.0	10628.2	7501.1
77.5°	361.8	368.9	397.8	513.0	684.5	646.9	1321.2	5183.7	6285.6	6884.7	4418.6
80°	287.4	295.2	312.5	347.7	513.0	461.3	630.4	2626.7	3036.3	3030.0	1763.7
82.5°	223.2	225.5	245.9	255.3	350.9	327.4	341.5	1112.1	1231.9	1272.6	636.7
85°	141.0	148.0	217.7	195.8	209.9	191.9	168.4	441.7	544.3	536.5	254.5
87.5°	43.1	45.4	73.6	83.0	93.2	83.8	61.9	130.0	159.0	172.3	63.4
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°	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8	1748.8
2.5°	1759.0	1750.3	1719.8	1694.7	1671.3	1645.4	1623.5	1617.2	1611.7	1609.4	1608.6
5°	1775.4	1749.6	1689.3	1639.9	1600.8	1564.7	1542.0	1531.8	1521.7	1521.7	1524.8
7.5°	1798.9	1751.9	1658.7	1585.1	1535.8	1502.1	1485.6	1484.1	1486.4	1488.8	1489.6
10°	1824.7	1750.3	1614.1	1522.5	1478.6	1462.9	1463.7	1477.0	1489.6	1499.0	1500.5
12.5°	1849.8	1741.0	1561.6	1463.7	1435.5	1438.7	1460.6	1490.3	1514.6	1527.9	1528.7
15°	1878.0	1726.1	1498.2	1408.1	1398.7	1423.0	1463.7	1509.1	1545.9	1567.9	1570.2
17.5°	1901.5	1701.0	1431.6	1354.1	1365.8	1410.5	1466.8	1525.6	1570.2	1597.6	1602.3
20°	1928.1	1668.9	1362.7	1302.4	1336.1	1396.4	1460.6	1524.0	1570.2	1596.9	1603.1
22.5°	1949.3	1623.5	1296.9	1260.1	1309.4	1379.1	1439.4	1490.3	1527.9	1542.0	1551.4
25°	1957.9	1566.3	1235.0	1225.6	1288.3	1350.9	1391.7	1420.6	1432.4	1430.8	1434.7
27.5°	1953.2	1500.5	1181.8	1198.2	1261.7	1307.1	1327.4	1325.1	1304.0	1284.4	1293.8
30°	1933.6	1422.2	1137.1	1170.0	1227.2	1252.3	1249.1	1218.6	1178.6	1141.8	1144.2
32.5°	1898.4	1337.6	1095.6	1137.9	1178.6	1189.6	1168.5	1128.5	1071.4	1023.6	1016.5
35°	1868.6	1257.0	1058.8	1101.1	1130.1	1124.6	1104.2	1052.6	1000.9	958.6	951.5
37.5°	1863.9	1188.0	1023.6	1059.6	1076.1	1068.2	1043.2	999.3	980.5	948.4	944.5
40°	1889.0	1139.5	987.6	1015.8	1023.6	1017.3	989.9	964.8	982.1	974.2	974.2
42.5°	1957.1	1113.6	955.4	971.9	978.2	982.9	963.3	942.1	963.3	927.3	915.5
45°	2065.2	1114.4	926.5	928.8	947.6	964.1	950.7	919.4	908.5	836.4	822.3
47.5°	2224.2	1141.1	903.0	888.1	921.8	949.2	930.4	885.0	836.4	788.6	780.0
50°	2409.8	1188.8	881.8	845.8	887.3	930.4	916.3	863.0	812.9	783.9	778.5
52.5°	2615.7	1249.1	856.0	798.8	845.0	921.8	919.4	859.9	791.0	771.4	766.7
55°	2870.3	1308.7	823.9	744.0	807.4	914.7	910.8	834.1	786.3	772.2	770.6
57.5°	3166.3	1394.8	777.7	688.4	764.4	885.7	877.1	818.4	770.6	760.4	759.7
60°	3643.2	1528.7	711.9	637.5	720.5	834.8	845.8	791.8	745.6	743.2	742.4
62.5°	4270.5	1716.7	643.8	585.0	669.6	769.1	800.4	755.7	718.9	730.7	732.2
65°	5136.7	1874.9	573.3	540.4	613.2	705.6	757.3	722.1	689.2	711.9	711.9
67.5°	5701.4	1878.0	509.1	494.2	556.0	652.4	711.9	682.1	650.8	689.2	690.7
70°	5583.9	1645.4	455.8	445.6	500.4	595.2	661.8	638.3	602.2	636.7	624.2
71°	5394.4	1516.2	434.7	426.8	478.5	567.8	638.3	618.7	582.7	605.4	598.3
72.5°	5092.1	1316.5	400.2	401.8	445.6	533.3	605.4	585.0	549.0	561.5	559.2
75°	4304.2	1149.7	342.2	349.3	383.0	474.6	539.6	523.9	487.1	487.1	484.8
77.5°	2690.9	803.5	284.3	288.2	325.0	406.5	463.6	450.3	415.1	403.3	400.2
80°	1004.0	415.1	222.4	227.1	249.8	320.3	383.7	371.2	335.2	321.9	309.3
82.5°	379.8	208.3	163.7	159.8	184.0	244.3	300.7	285.9	257.7	225.5	216.2
85°	143.3	103.4	100.2	97.1	108.1	144.9	186.4	183.3	153.5	130.8	128.4
87.5°	37.6	33.7	39.2	29.0	30.5	27.4	28.2	11.7	5.5	2.3	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)