

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: P451194

Luminaire Tested: **GALN-SA2A-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451194
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-SA2A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9249 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

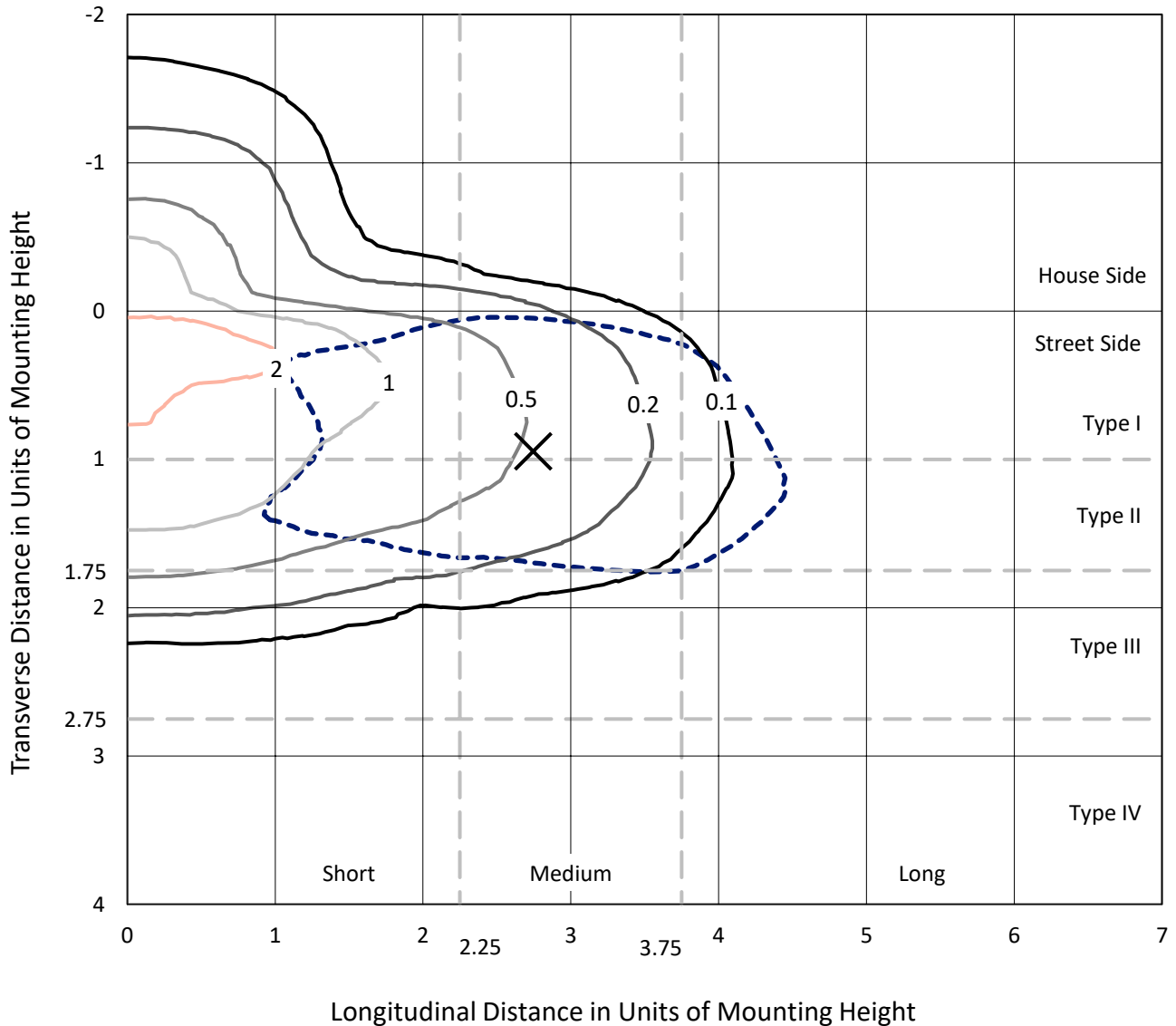
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451194
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Iso-Footcandle Lines of Horizontal Illumination

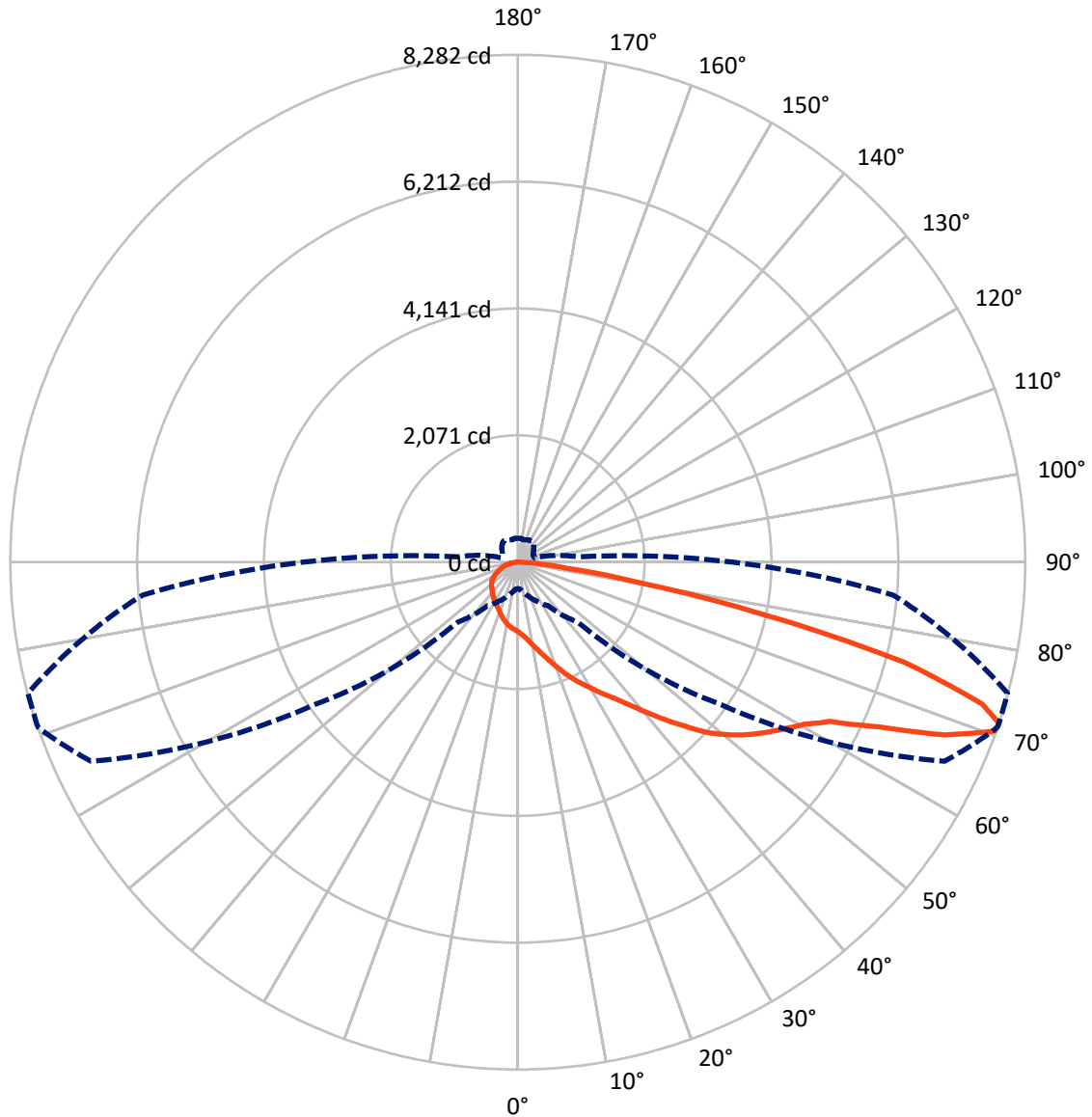
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P451194
CATALOG NUMBER: GALN-SA2A-740-U-T2

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA2A-740-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.4	0.0	1663.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	7585.6	0.0	7585.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	9249.0	0.0	9249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	1.2
10°-20°	370.3	4.0
20°-30°	647.1	7.0
30°-40°	962.5	10.4
40°-50°	1418.1	15.3
50°-60°	1985.4	21.5
60°-70°	2220.6	24.0
70°-80°	1356.4	14.7
80°-90°	174.5	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°	9249.0	100.0
0°-180°	9249.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451194

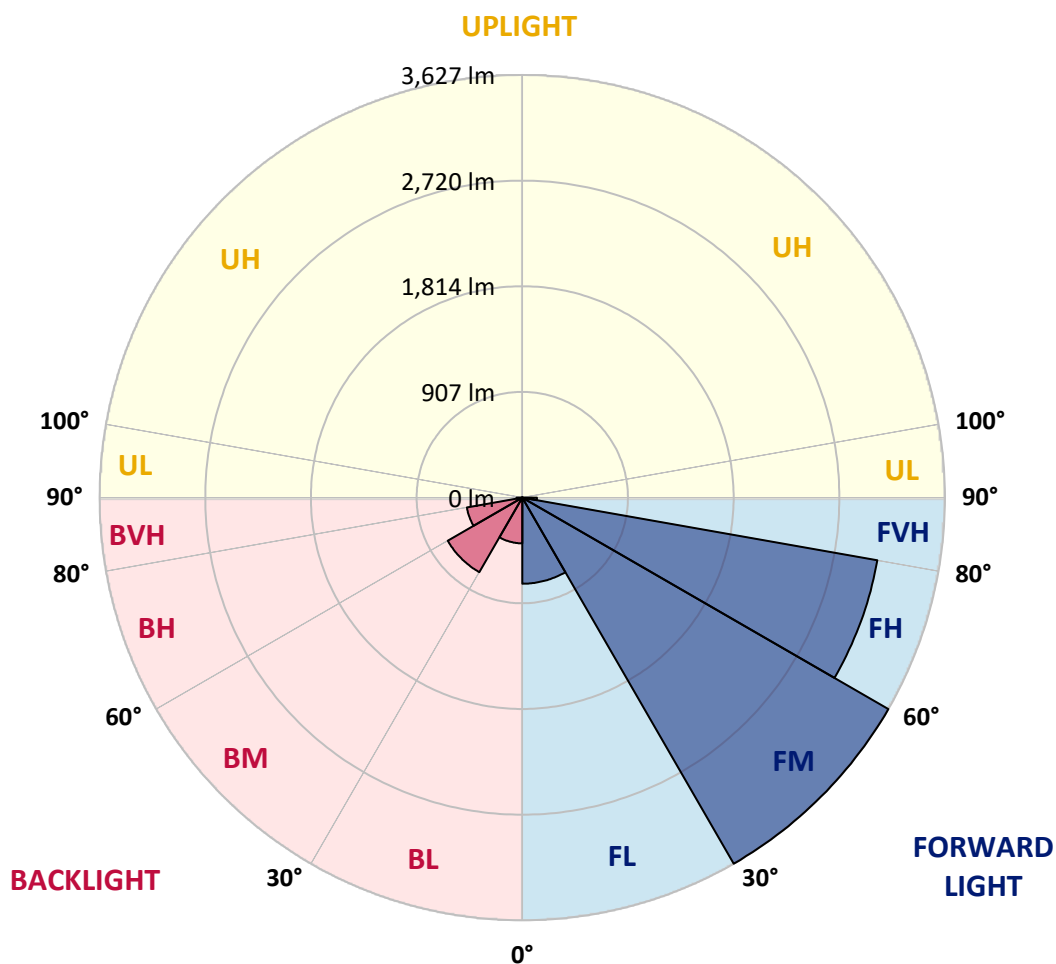
CATALOG NUMBER: GALN-SA2A-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	739.0	8.0			
FM	(30°-60°)	3627.3	39.2			
FH	(60°-80°)	3093.8	33.4			G2/5000
FVH	(80°-90°)	125.6	1.4			G2/225
BL	(0°-30°)	392.4	4.2	B1/500		
BM	(30°-60°)	738.8	8.0	B1/1000		
BH	(60°-80°)	483.3	5.2	B1/500		G1/500
BVH	(80°-90°)	48.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P451194

CATALOG NUMBER: GALN-SA2A-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1
2.5°	1260.2	1254.1	1254.6	1246.0	1234.8	1222.6	1205.3	1190.0	1177.8	1170.7	1149.9
5°	1396.4	1390.3	1382.7	1363.9	1355.8	1325.8	1287.6	1253.1	1226.6	1211.9	1170.2
7.5°	1506.7	1505.2	1503.2	1492.5	1471.7	1430.0	1397.4	1337.5	1298.3	1270.4	1199.2
10°	1574.8	1577.4	1578.9	1581.0	1572.3	1550.4	1505.7	1430.0	1380.2	1344.6	1236.8
12.5°	1609.4	1612.0	1620.6	1639.4	1651.1	1648.6	1612.0	1537.7	1469.1	1422.3	1277.0
15°	1630.8	1634.8	1650.1	1675.0	1714.1	1739.0	1721.3	1652.6	1577.4	1522.0	1324.7
17.5°	1654.2	1658.7	1675.5	1711.1	1762.4	1816.3	1835.6	1776.7	1694.8	1628.7	1378.1
20°	1667.4	1673.5	1697.4	1744.1	1804.1	1882.4	1946.4	1915.4	1826.0	1752.8	1439.6
22.5°	1688.7	1693.8	1714.1	1764.0	1835.6	1933.7	2057.3	2050.7	1971.9	1877.3	1507.2
25°	1746.7	1754.8	1765.0	1795.0	1864.1	1986.1	2149.3	2195.0	2113.2	2007.5	1569.3
27.5°	1856.0	1862.6	1862.1	1866.1	1905.3	2031.3	2229.1	2337.9	2253.5	2139.1	1629.2
30°	1980.5	1983.1	1985.1	1975.9	1984.6	2077.6	2302.3	2479.2	2394.8	2274.3	1681.6
32.5°	2132.0	2137.1	2119.8	2096.4	2089.3	2146.2	2362.8	2620.5	2562.1	2411.6	1733.5
35°	2310.9	2324.1	2289.1	2247.9	2218.9	2244.8	2444.1	2764.9	2733.4	2587.0	1802.1
37.5°	2515.3	2531.6	2499.0	2418.2	2377.0	2384.1	2550.4	2943.3	2949.9	2786.7	1904.3
40°	2682.5	2703.9	2704.9	2590.5	2528.0	2536.1	2685.1	3135.5	3211.2	3033.8	2024.7
42.5°	2792.8	2813.7	2835.5	2768.4	2702.9	2749.1	2842.2	3343.9	3505.0	3333.7	2193.0
45°	2913.8	2932.6	2944.8	2914.3	2877.7	2997.7	3031.8	3565.5	3818.2	3668.7	2377.0
47.5°	3054.1	3075.0	3086.7	3057.7	3044.0	3215.8	3236.1	3772.4	4152.7	3994.1	2580.4
50°	3241.2	3257.0	3250.9	3232.6	3229.5	3383.0	3432.3	3966.1	4428.7	4344.3	2791.3
52.5°	3474.0	3492.8	3499.4	3473.5	3461.8	3502.5	3590.4	4142.5	4679.8	4645.2	3016.5
55°	3614.8	3644.8	3745.5	3786.1	3814.1	3657.0	3760.7	4337.2	4905.0	4962.5	3258.5
57.5°	3434.4	3473.0	3698.2	3901.5	4164.4	4043.4	4002.2	4540.5	5130.2	5270.0	3548.2
60°	2994.1	3002.8	3293.1	3667.7	4196.4	4540.0	4506.0	4863.8	5374.2	5580.1	3930.0
62.5°	2077.1	2095.4	2438.5	3036.3	3800.9	4719.0	5363.0	5422.0	5724.0	6044.2	4489.7
65°	1071.1	1047.2	1359.8	1908.3	2865.5	4294.0	6057.4	6448.3	6482.4	6770.1	5277.6
67.5°	659.3	670.0	816.4	1114.3	1694.3	3120.7	5984.7	7702.4	7523.0	7661.3	6009.1
70°	495.1	508.3	609.0	762.5	1033.0	1784.3	4813.0	8006.4	8257.0	8221.4	6231.8
71°	430.6	444.3	549.0	693.9	867.7	1377.1	4055.1	7688.2	8282.4	8276.3	6147.9
72.5°	367.0	375.7	457.5	587.6	731.5	965.3	3046.5	6895.2	7929.2	8132.0	5848.5
75°	288.2	294.8	331.4	448.4	576.0	592.7	1634.8	5169.4	6512.4	6898.7	4868.9
77.5°	234.9	239.4	258.2	333.0	444.3	419.9	857.6	3364.7	4080.0	4468.9	2868.1
80°	186.6	191.6	202.8	225.7	333.0	299.4	409.2	1705.0	1970.8	1966.8	1144.8
82.5°	144.9	146.4	159.6	165.7	227.7	212.5	221.6	721.8	799.6	826.1	413.3
85°	91.5	96.1	141.3	127.1	136.2	124.5	109.3	286.7	353.3	348.2	165.2
87.5°	28.0	29.5	47.8	53.9	60.5	54.4	40.2	84.4	103.2	111.8	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451194
 CATALOG NUMBER: GALN-SA2A-740-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1	1135.1
2.5°	1141.7	1136.1	1116.3	1100.1	1084.8	1068.0	1053.8	1049.7	1046.2	1044.6	1044.1
5°	1152.4	1135.6	1096.5	1064.5	1039.1	1015.7	1000.9	994.3	987.7	987.7	989.7
7.5°	1167.7	1137.2	1076.7	1028.9	996.9	975.0	964.3	963.3	964.8	966.4	966.9
10°	1184.4	1136.1	1047.7	988.2	959.8	949.6	950.1	958.7	966.9	973.0	974.0
12.5°	1200.7	1130.0	1013.6	950.1	931.8	933.8	948.1	967.4	983.1	991.8	992.3
15°	1219.0	1120.4	972.5	914.0	907.9	923.7	950.1	979.6	1003.5	1017.7	1019.2
17.5°	1234.3	1104.1	929.3	878.9	886.6	915.5	952.1	990.3	1019.2	1037.0	1040.1
20°	1251.5	1083.3	884.5	845.4	867.2	906.4	948.1	989.2	1019.2	1036.5	1040.6
22.5°	1265.3	1053.8	841.8	817.9	850.0	895.2	934.3	967.4	991.8	1000.9	1007.0
25°	1270.9	1016.7	801.7	795.6	836.2	876.9	903.3	922.1	929.8	928.7	931.3
27.5°	1267.8	974.0	767.1	777.8	818.9	848.4	861.6	860.1	846.4	833.7	839.8
30°	1255.1	923.2	738.1	759.5	796.6	812.8	810.8	791.0	765.1	741.2	742.7
32.5°	1232.2	868.3	711.2	738.6	765.1	772.2	758.4	732.5	695.4	664.4	659.8
35°	1212.9	815.9	687.3	714.7	733.5	730.0	716.8	683.2	649.7	622.2	617.6
37.5°	1209.9	771.2	664.4	687.8	698.5	693.4	677.1	648.6	636.4	615.6	613.1
40°	1226.1	739.6	641.0	659.3	664.4	660.3	642.5	626.3	637.5	632.4	632.4
42.5°	1270.4	722.9	620.2	630.9	634.9	638.0	625.3	611.5	625.3	601.9	594.3
45°	1340.5	723.4	601.4	602.9	615.1	625.8	617.1	596.8	589.7	542.9	533.8
47.5°	1443.7	740.7	586.1	576.5	598.3	616.1	603.9	574.4	542.9	511.9	506.3
50°	1564.2	771.7	572.4	549.0	576.0	603.9	594.8	560.2	527.7	508.9	505.3
52.5°	1697.9	810.8	555.6	518.5	548.5	598.3	596.8	558.2	513.4	500.7	497.7
55°	1863.1	849.4	534.8	482.9	524.1	593.7	591.2	541.4	510.4	501.2	500.2
57.5°	2055.2	905.4	504.8	446.8	496.1	574.9	569.3	531.2	500.2	493.6	493.1
60°	2364.8	992.3	462.1	413.8	467.7	541.9	549.0	513.9	483.9	482.4	481.9
62.5°	2772.0	1114.3	417.9	379.7	434.6	499.2	519.5	490.6	466.7	474.3	475.3
65°	3334.2	1217.0	372.1	350.8	398.0	458.0	491.6	468.7	447.3	462.1	462.1
67.5°	3700.7	1219.0	330.4	320.8	360.9	423.5	462.1	442.8	422.4	447.3	448.4
70°	3624.5	1068.0	295.9	289.2	324.8	386.3	429.6	414.3	390.9	413.3	405.2
71°	3501.5	984.2	282.1	277.0	310.6	368.5	414.3	401.6	378.2	392.9	388.4
72.5°	3305.3	854.5	259.8	260.8	289.2	346.2	392.9	379.7	356.3	364.5	363.0
75°	2793.9	746.2	222.1	226.7	248.6	308.1	350.2	340.1	316.2	316.2	314.7
77.5°	1746.7	521.6	184.5	187.1	211.0	263.8	300.9	292.3	269.4	261.8	259.8
80°	651.7	269.4	144.4	147.4	162.2	207.9	249.1	241.0	217.6	208.9	200.8
82.5°	246.5	135.2	106.2	103.7	119.5	158.6	195.2	185.5	167.2	146.4	140.3
85°	93.0	67.1	65.1	63.0	70.2	94.0	121.0	119.0	99.6	84.9	83.4
87.5°	24.4	21.9	25.4	18.8	19.8	17.8	18.3	7.6	3.6	1.5	1.0
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)