

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: P452122

Luminaire Tested: **GALN-SA3A-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452122  
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-SA3A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 13730 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

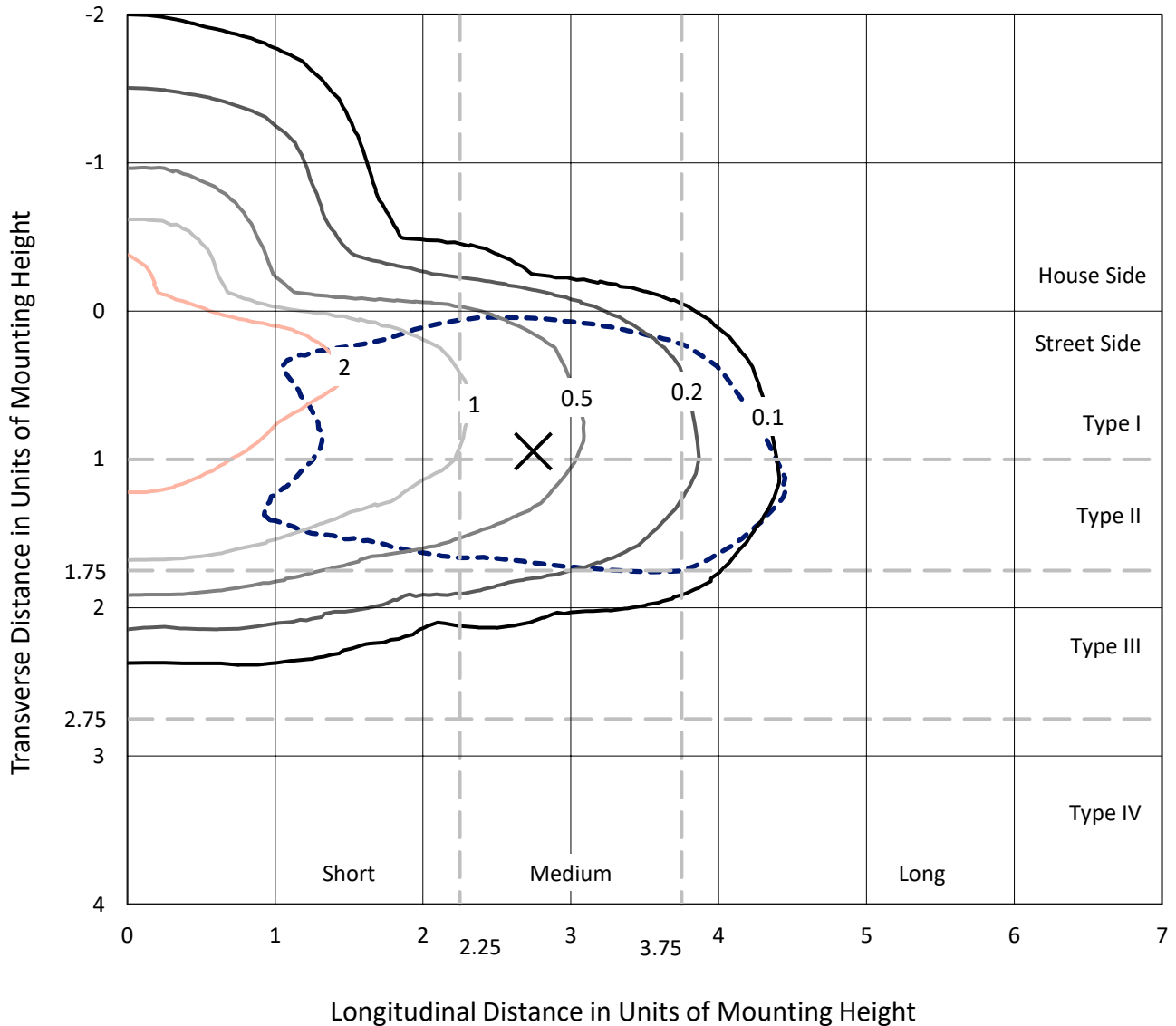
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452122  
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### Iso-Footcandle Lines of Horizontal Illumination

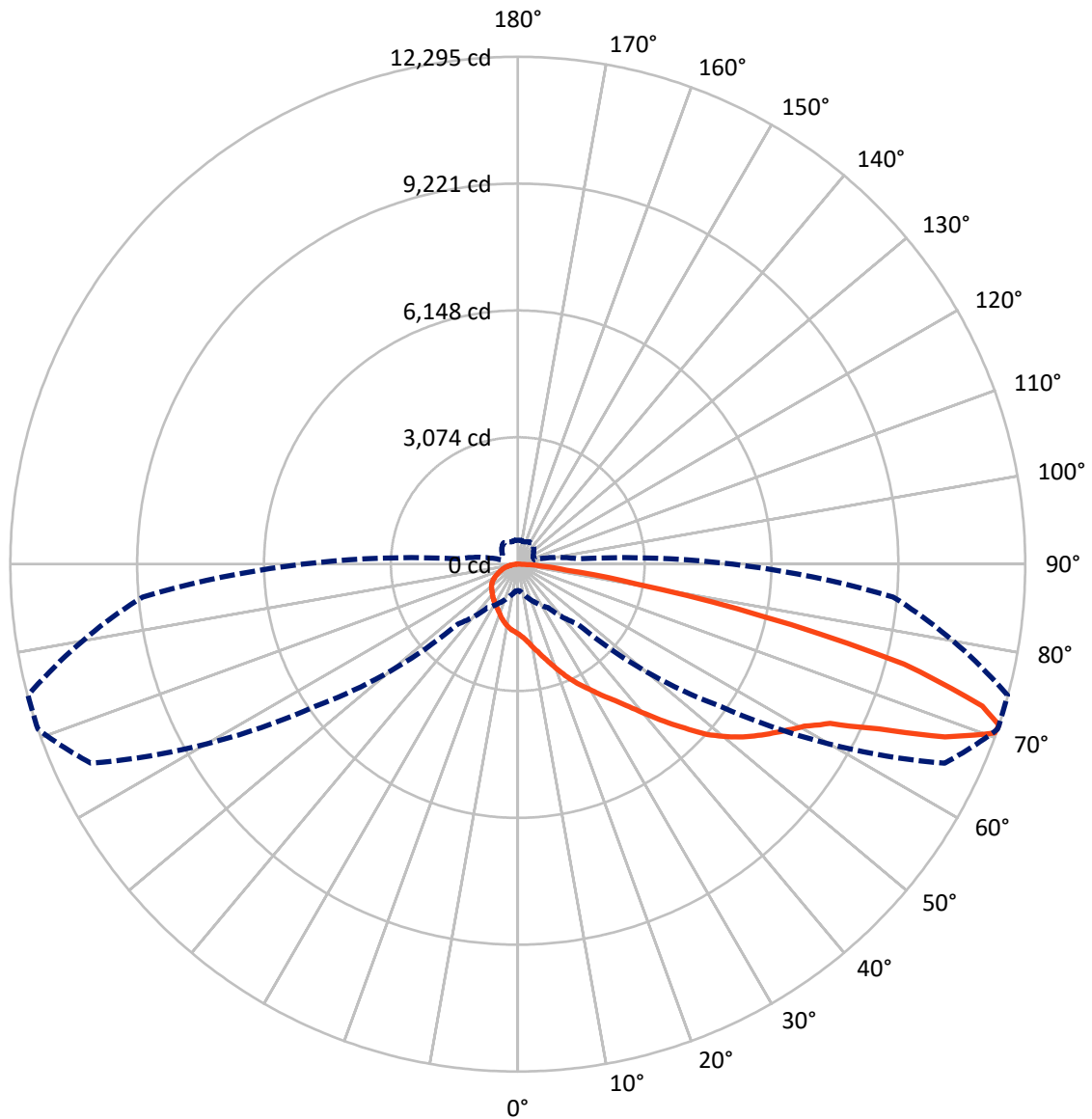
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P452122  
CATALOG NUMBER: GALN-SA3A-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-SA3A-740-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2469.3	0.0	2469.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	11260.7	0.0	11260.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	13730.0	0.0	13730.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.2
10°-20°	549.7	4.0
20°-30°	960.6	7.0
30°-40°	1428.8	10.4
40°-50°	2105.2	15.3
50°-60°	2947.3	21.5
60°-70°	3296.5	24.0
70°-80°	2013.6	14.7
80°-90°	259.0	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°	13730.0	100.0
0°-180°	13730.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452122

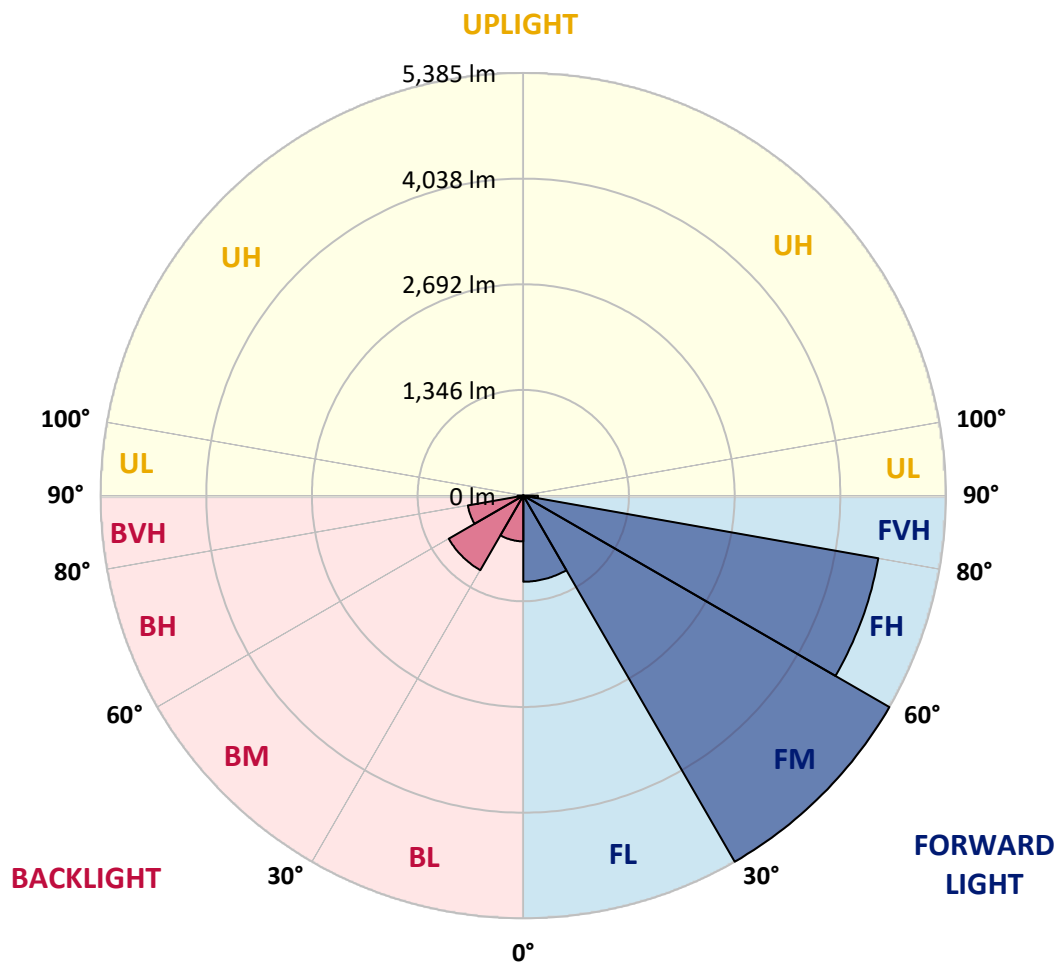
CATALOG NUMBER: GALN-SA3A-740-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1097.0	8.0			
FM	(30°-60°)	5384.6	39.2			
FH	(60°-80°)	4592.6	33.4			G2/5000
FVH	(80°-90°)	186.4	1.4			G2/225
BL	(0°-30°)	582.5	4.2	B2/1000		
BM	(30°-60°)	1096.7	8.0	B2/2500		
BH	(60°-80°)	717.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	72.6	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





REPORT NUMBER: P452122  
 CATALOG NUMBER: GALN-SA3A-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1870.7	1861.7	1862.4	1849.6	1833.0	1814.9	1789.2	1766.6	1748.5	1737.9	1707.0
5°	2073.0	2063.9	2052.6	2024.7	2012.6	1968.1	1911.5	1860.2	1820.9	1799.0	1737.2
7.5°	2236.7	2234.5	2231.4	2215.6	2184.7	2122.8	2074.5	1985.4	1927.3	1885.8	1780.2
10°	2337.8	2341.6	2343.9	2346.9	2334.1	2301.6	2235.2	2122.8	2048.8	1996.0	1836.0
12.5°	2389.2	2392.9	2405.8	2433.7	2451.0	2447.3	2392.9	2282.8	2180.9	2111.5	1895.6
15°	2420.8	2426.9	2449.5	2486.5	2544.6	2581.6	2555.2	2453.3	2341.6	2259.4	1966.6
17.5°	2455.6	2462.4	2487.3	2540.1	2616.3	2696.3	2725.0	2637.4	2515.9	2417.8	2045.8
20°	2475.2	2484.2	2519.7	2589.1	2678.2	2794.4	2889.5	2843.4	2710.6	2602.0	2137.1
22.5°	2506.9	2514.4	2544.6	2618.6	2725.0	2870.6	3054.0	3044.2	2927.2	2786.8	2237.5
25°	2592.9	2605.0	2620.1	2664.6	2767.2	2948.3	3190.6	3258.5	3137.0	2980.0	2329.5
27.5°	2755.2	2765.0	2764.2	2770.2	2828.3	3015.5	3309.0	3470.5	3345.3	3175.5	2418.6
30°	2940.0	2943.8	2946.8	2933.2	2946.1	3084.2	3417.7	3680.3	3555.1	3376.2	2496.3
32.5°	3164.9	3172.5	3146.8	3112.1	3101.5	3186.0	3507.5	3890.1	3803.3	3580.0	2573.3
35°	3430.5	3450.2	3398.1	3337.0	3294.0	3332.4	3628.3	4104.4	4057.6	3840.3	2675.2
37.5°	3733.9	3758.1	3709.8	3589.8	3528.6	3539.2	3786.0	4369.3	4379.1	4136.9	2826.8
40°	3982.2	4013.9	4015.4	3845.6	3752.8	3764.8	3986.0	4654.6	4767.0	4503.6	3005.7
42.5°	4145.9	4176.9	4209.3	4109.7	4012.4	4081.0	4219.1	4963.9	5203.2	4948.9	3255.5
45°	4325.5	4353.5	4371.6	4326.3	4272.0	4450.0	4500.6	5293.0	5668.0	5446.2	3528.6
47.5°	4533.8	4564.8	4582.1	4539.1	4518.7	4773.8	4804.0	5600.1	6164.6	5929.1	3830.5
50°	4811.5	4834.9	4825.9	4798.7	4794.2	5022.1	5095.3	5887.6	6574.3	6449.1	4143.7
52.5°	5157.1	5185.1	5194.9	5156.4	5139.0	5199.4	5329.9	6149.5	6947.1	6895.8	4478.0
55°	5366.2	5410.7	5560.1	5620.5	5662.0	5428.8	5582.7	6438.5	7281.4	7366.7	4837.2
57.5°	5098.3	5155.6	5489.9	5791.8	6181.9	6002.3	5941.2	6740.3	7615.7	7823.2	5267.3
60°	4444.8	4457.6	4888.5	5444.6	6229.5	6739.6	6689.0	7220.3	7977.9	8283.6	5834.0
62.5°	3083.4	3110.6	3620.0	4507.4	5642.4	7005.2	7961.3	8048.9	8497.1	8972.5	6664.9
65°	1590.0	1554.5	2018.6	2832.9	4253.8	6374.4	8992.2	9572.5	9623.0	10050.1	7834.6
67.5°	978.8	994.6	1211.9	1654.1	2515.2	4632.7	8884.2	11434.1	11167.8	11373.0	8920.5
70°	735.0	754.6	904.0	1131.9	1533.4	2648.7	7144.8	11885.4	12257.4	12204.6	9251.0
71°	639.2	659.5	815.0	1030.1	1288.2	2044.3	6019.7	11413.0	12295.2	12286.1	9126.5
72.5°	544.8	557.7	679.2	872.4	1085.9	1433.0	4522.5	10235.8	11770.7	12071.8	8682.0
75°	427.9	437.7	492.0	665.6	855.0	879.9	2426.9	7673.8	9667.6	10241.1	7227.8
77.5°	348.6	355.4	383.4	494.3	659.5	623.3	1273.1	4994.9	6056.7	6633.9	4257.6
80°	276.9	284.5	301.1	335.1	494.3	444.5	607.5	2531.0	2925.7	2919.7	1699.4
82.5°	215.1	217.3	237.0	246.0	338.1	315.4	329.0	1071.6	1187.0	1226.3	613.5
85°	135.8	142.6	209.8	188.7	202.2	184.9	162.2	425.6	524.5	516.9	245.3
87.5°	41.5	43.8	70.9	80.0	89.8	80.7	59.6	125.3	153.2	166.0	61.1
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: P452122  
 CATALOG NUMBER: GALN-SA3A-740-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1	1685.1
2.5°	1694.9	1686.6	1657.2	1633.0	1610.4	1585.5	1564.3	1558.3	1553.0	1550.8	1550.0
5°	1710.7	1685.8	1627.7	1580.2	1542.5	1507.7	1485.9	1476.1	1466.2	1466.2	1469.3
7.5°	1733.4	1688.1	1598.3	1527.4	1479.8	1447.4	1431.5	1430.0	1432.3	1434.5	1435.3
10°	1758.3	1686.6	1555.3	1467.0	1424.7	1409.6	1410.4	1423.2	1435.3	1444.4	1445.9
12.5°	1782.4	1677.5	1504.7	1410.4	1383.2	1386.3	1407.4	1436.1	1459.5	1472.3	1473.0
15°	1809.6	1663.2	1443.6	1356.8	1347.8	1371.2	1410.4	1454.2	1489.6	1510.8	1513.0
17.5°	1832.2	1639.1	1379.5	1304.8	1316.1	1359.1	1413.4	1470.0	1513.0	1539.4	1544.0
20°	1857.9	1608.1	1313.1	1254.9	1287.4	1345.5	1407.4	1468.5	1513.0	1538.7	1544.7
22.5°	1878.3	1564.3	1249.7	1214.2	1261.7	1328.9	1387.0	1436.1	1472.3	1485.9	1494.9
25°	1886.6	1509.3	1190.1	1181.0	1241.4	1301.7	1341.0	1368.9	1380.2	1378.7	1382.5
27.5°	1882.0	1445.9	1138.7	1154.6	1215.7	1259.5	1279.1	1276.8	1256.5	1237.6	1246.6
30°	1863.2	1370.4	1095.7	1127.4	1182.5	1206.7	1203.6	1174.2	1135.7	1100.2	1102.5
32.5°	1829.2	1288.9	1055.7	1096.5	1135.7	1146.3	1125.9	1087.4	1032.3	986.3	979.5
35°	1800.5	1211.2	1020.3	1061.0	1088.9	1083.6	1064.0	1014.2	964.4	923.7	916.9
37.5°	1796.0	1144.8	986.3	1021.0	1036.9	1029.3	1005.2	962.9	944.8	913.9	910.1
40°	1820.2	1098.0	951.6	978.8	986.3	980.3	953.9	929.7	946.3	938.8	938.8
42.5°	1885.8	1073.1	920.6	936.5	942.5	947.1	928.2	907.8	928.2	893.5	882.2
45°	1990.0	1073.8	892.7	895.0	913.1	928.9	916.1	885.9	875.4	805.9	792.4
47.5°	2143.1	1099.5	870.1	855.7	888.2	914.6	896.5	852.7	805.9	759.9	751.6
50°	2322.0	1145.5	849.7	815.0	855.0	896.5	882.9	831.6	783.3	755.4	750.1
52.5°	2520.5	1203.6	824.8	769.7	814.2	888.2	885.9	828.6	762.2	743.3	738.8
55°	2765.7	1261.0	793.9	716.9	778.0	881.4	877.6	803.7	757.6	744.1	742.6
57.5°	3051.0	1344.0	749.3	663.3	736.5	853.5	845.2	788.6	742.6	732.7	732.0
60°	3510.5	1473.0	686.0	614.3	694.3	804.4	815.0	762.9	718.4	716.1	715.4
62.5°	4115.0	1654.1	620.3	563.7	645.2	741.0	771.2	728.2	692.7	704.1	705.6
65°	4949.6	1806.6	552.4	520.7	590.9	679.9	729.7	695.8	664.1	686.0	686.0
67.5°	5493.7	1809.6	490.5	476.2	535.8	628.6	686.0	657.3	627.1	664.1	665.6
70°	5380.5	1585.5	439.2	429.4	482.2	573.5	637.7	615.0	580.3	613.5	601.4
71°	5197.9	1461.0	418.8	411.3	461.1	547.1	615.0	596.2	561.4	583.3	576.5
72.5°	4906.6	1268.5	385.6	387.1	429.4	513.9	583.3	563.7	529.0	541.1	538.8
75°	4147.4	1107.8	329.8	336.6	369.0	457.3	519.9	504.8	469.4	469.4	467.1
77.5°	2592.9	774.2	273.9	277.7	313.2	391.7	446.7	433.9	400.0	388.6	385.6
80°	967.4	400.0	214.3	218.8	240.7	308.6	369.8	357.7	323.0	310.2	298.1
82.5°	366.0	200.7	157.7	153.9	177.3	235.4	289.8	275.4	248.3	217.3	208.3
85°	138.1	99.6	96.6	93.6	104.1	139.6	179.6	176.6	147.9	126.0	123.8
87.5°	36.2	32.4	37.7	27.9	29.4	26.4	27.2	11.3	5.3	2.3	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)