

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: P452325

Luminaire Tested: **GALN-SA3B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452325
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-SA3B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15558 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

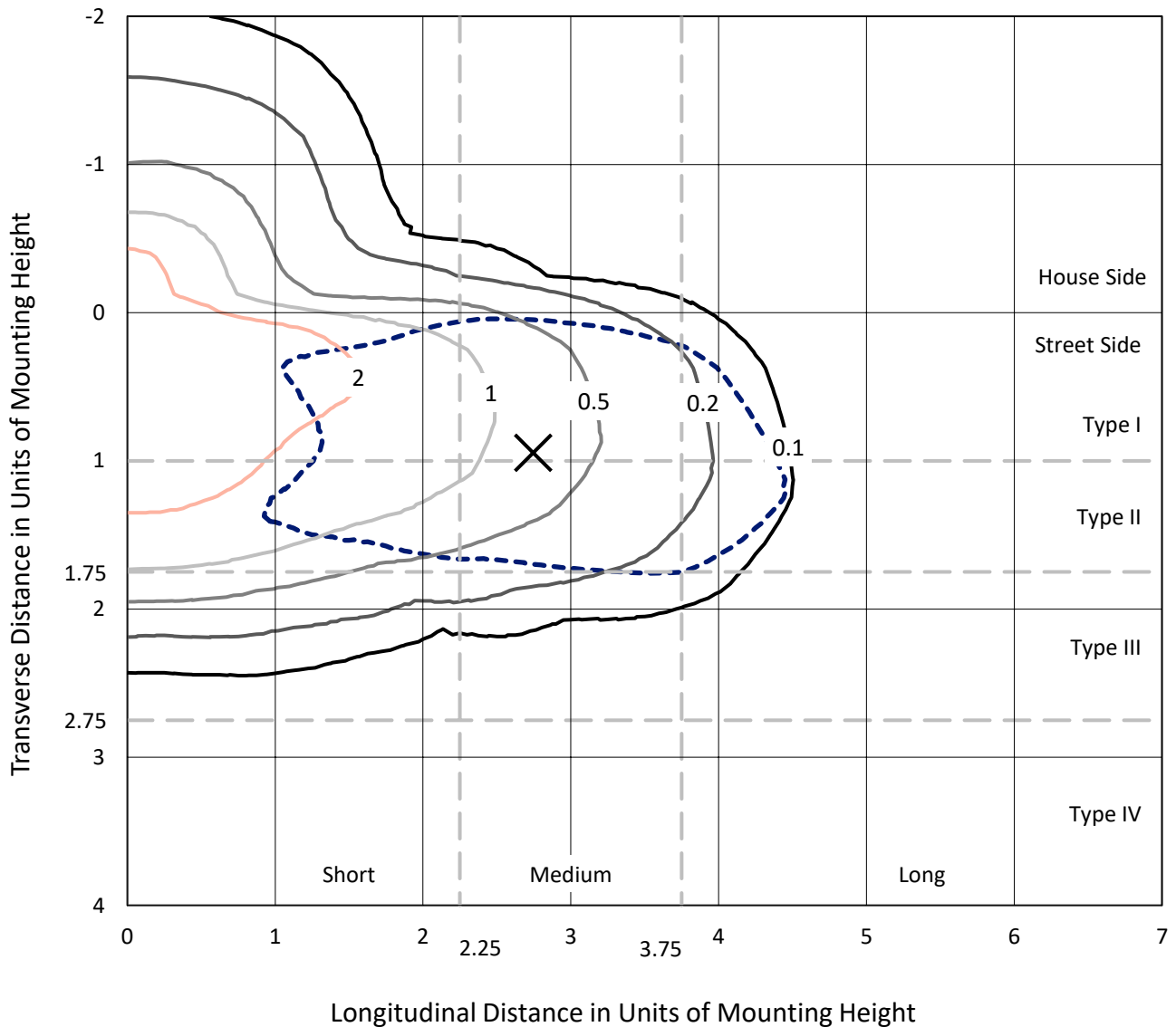
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452325
 CATALOG NUMBER: GALN-SA3B-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

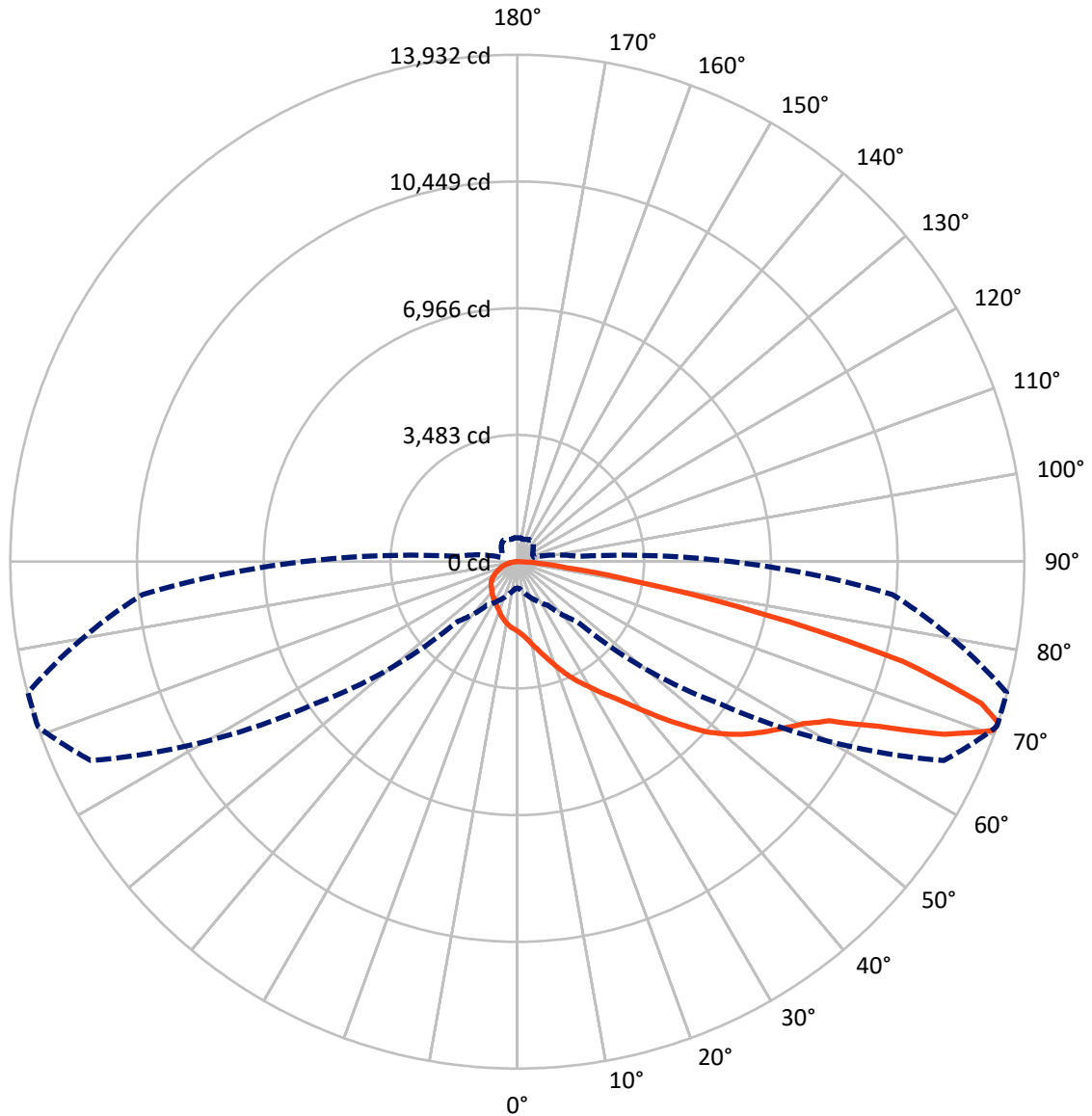
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P452325
CATALOG NUMBER: GALN-SA3B-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452325

CATALOG NUMBER: GALN-SA3B-730-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2798.1	0.0	2798.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12759.9	0.0	12759.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	15558.0	0.0	15558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.2
10°-20°	622.9	4.0
20°-30°	1088.5	7.0
30°-40°	1619.1	10.4
40°-50°	2385.5	15.3
50°-60°	3339.7	21.5
60°-70°	3735.4	24.0
70°-80°	2281.7	14.7
80°-90°	293.5	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°	15558.0	100.0
0°-180°	15558.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452325

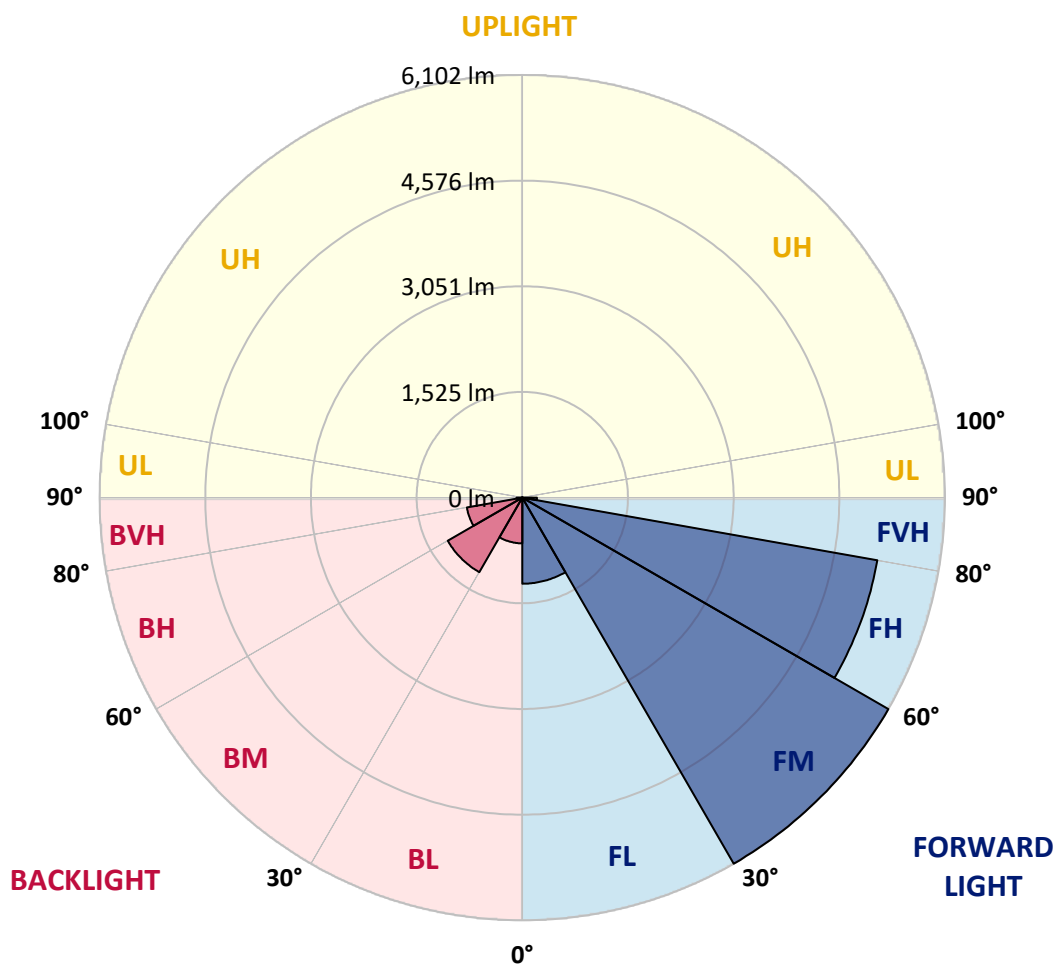
CATALOG NUMBER: GALN-SA3B-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.1	8.0			
FM	(30°-60°)	6101.5	39.2			
FH	(60°-80°)	5204.1	33.4			G3/7500
FVH	(80°-90°)	211.2	1.4			G2/225
BL	(0°-30°)	660.1	4.2	B2/1000		
BM	(30°-60°)	1242.7	8.0	B2/2500		
BH	(60°-80°)	813.0	5.2	B2/1000		G2/1000
BVH	(80°-90°)	82.3	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-G3

Type II Medium





REPORT NUMBER: P452325

CATALOG NUMBER: GALN-SA3B-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4
2.5°	2119.8	2109.5	2110.4	2095.8	2077.0	2056.5	2027.4	2001.8	1981.3	1969.3	1934.2
5°	2349.0	2338.7	2325.9	2294.2	2280.6	2230.1	2166.0	2107.8	2063.4	2038.6	1968.4
7.5°	2534.5	2532.0	2528.5	2510.6	2475.5	2405.4	2350.7	2249.8	2183.9	2136.9	2017.2
10°	2649.1	2653.4	2655.9	2659.4	2644.8	2608.1	2532.8	2405.4	2321.6	2261.7	2080.5
12.5°	2707.2	2711.5	2726.1	2757.7	2777.4	2773.1	2711.5	2586.7	2471.2	2392.6	2148.0
15°	2743.2	2750.0	2775.7	2817.6	2883.4	2925.3	2895.4	2779.9	2653.4	2560.2	2228.4
17.5°	2782.5	2790.2	2818.4	2878.3	2964.6	3055.3	3087.8	2988.6	2850.9	2739.7	2318.2
20°	2804.7	2815.0	2855.2	2933.8	3034.7	3166.4	3274.2	3222.0	3071.5	2948.4	2421.6
22.5°	2840.6	2849.2	2883.4	2967.2	3087.8	3252.8	3460.6	3449.5	3316.9	3157.9	2535.4
25°	2938.1	2951.8	2968.9	3019.4	3135.7	3340.9	3615.4	3692.3	3554.6	3376.8	2639.7
27.5°	3122.0	3133.1	3132.2	3139.1	3204.9	3417.0	3749.6	3932.6	3790.7	3598.3	2740.6
30°	3331.5	3335.7	3339.2	3323.8	3338.3	3494.8	3872.7	4170.3	4028.4	3825.7	2828.7
32.5°	3586.3	3594.8	3565.8	3526.4	3514.5	3610.2	3974.5	4408.0	4309.7	4056.6	2915.9
35°	3887.3	3909.5	3850.5	3781.3	3732.5	3776.1	4111.3	4650.9	4597.9	4351.6	3031.3
37.5°	4231.0	4258.4	4203.7	4067.7	3998.4	4010.4	4290.0	4951.0	4962.1	4687.7	3203.2
40°	4512.4	4548.3	4550.0	4357.6	4252.4	4266.1	4516.6	5274.3	5401.7	5103.2	3405.9
42.5°	4697.9	4733.0	4769.7	4656.9	4546.6	4624.4	4780.9	5624.8	5895.9	5607.7	3688.9
45°	4901.4	4933.1	4953.6	4902.3	4840.7	5042.5	5099.8	5997.7	6422.7	6171.3	3998.4
47.5°	5137.4	5172.5	5192.2	5143.4	5120.3	5409.4	5443.6	6345.7	6985.3	6718.5	4340.5
50°	5452.1	5478.6	5468.4	5437.6	5432.4	5690.7	5773.6	6671.5	7449.6	7307.7	4695.4
52.5°	5843.8	5875.4	5886.5	5842.9	5823.2	5891.6	6039.6	6968.2	7872.0	7813.9	5074.2
55°	6080.6	6131.1	6300.4	6368.8	6415.8	6151.6	6326.0	7295.7	8250.9	8347.5	5481.2
57.5°	5777.1	5842.0	6220.9	6562.9	7005.0	6801.5	6732.2	7637.8	8629.7	8864.8	5968.6
60°	5036.5	5051.1	5539.3	6169.5	7058.8	7636.9	7579.6	8181.6	9040.1	9386.4	6610.8
62.5°	3493.9	3524.7	4101.9	5107.5	6393.6	7937.9	9021.3	9120.5	9628.4	10167.1	7552.2
65°	1801.7	1761.5	2287.4	3210.0	4820.2	7223.0	10189.4	10846.9	10904.2	11388.2	8877.6
67.5°	1109.1	1127.0	1373.3	1874.4	2850.0	5249.5	10067.1	12956.5	12654.6	12887.2	10108.1
70°	832.9	855.1	1024.4	1282.6	1737.6	3001.4	8096.1	13467.8	13889.4	13829.5	10482.7
71°	724.3	747.4	923.5	1167.2	1459.7	2316.5	6821.1	12932.5	13932.1	13921.9	10341.6
72.5°	617.4	631.9	769.6	988.5	1230.5	1623.8	5124.6	11598.6	13337.8	13679.0	9837.9
75°	484.8	496.0	557.5	754.2	968.8	997.0	2750.0	8695.5	10954.7	11604.6	8190.1
77.5°	395.1	402.8	434.4	560.1	747.4	706.3	1442.6	5659.9	6863.0	7517.2	4824.5
80°	313.8	322.4	341.2	379.7	560.1	503.7	688.4	2868.0	3315.2	3308.4	1925.7
82.5°	243.7	246.3	268.5	278.8	383.1	357.4	372.8	1214.2	1345.1	1389.5	695.2
85°	153.9	161.6	237.7	213.8	229.2	209.5	183.8	482.3	594.3	585.7	277.9
87.5°	47.0	49.6	80.4	90.6	101.8	91.5	67.6	141.9	173.6	188.1	69.3
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: P452325
 CATALOG NUMBER: GALN-SA3B-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4	1909.4
2.5°	1920.6	1911.1	1877.8	1850.4	1824.8	1796.6	1772.6	1765.8	1759.8	1757.2	1756.4
5°	1938.5	1910.3	1844.5	1790.6	1747.8	1708.5	1683.7	1672.6	1661.5	1661.5	1664.9
7.5°	1964.2	1912.9	1811.1	1730.7	1676.9	1640.1	1622.1	1620.4	1623.0	1625.5	1626.4
10°	1992.4	1911.1	1762.4	1662.3	1614.4	1597.3	1598.2	1612.7	1626.4	1636.7	1638.4
12.5°	2019.7	1900.9	1705.1	1598.2	1567.4	1570.8	1594.8	1627.3	1653.8	1668.3	1669.2
15°	2050.5	1884.6	1635.8	1537.5	1527.2	1553.7	1598.2	1647.8	1688.0	1711.9	1714.5
17.5°	2076.2	1857.3	1563.1	1478.5	1491.3	1540.0	1601.6	1665.7	1714.5	1744.4	1749.5
20°	2105.3	1822.2	1487.9	1422.0	1458.8	1524.6	1594.8	1664.0	1714.5	1743.5	1750.4
22.5°	2128.3	1772.6	1416.0	1375.9	1429.7	1505.8	1571.7	1627.3	1668.3	1683.7	1694.0
25°	2137.7	1710.2	1348.5	1338.2	1406.6	1475.0	1519.5	1551.2	1564.0	1562.3	1566.5
27.5°	2132.6	1638.4	1290.3	1308.3	1377.6	1427.2	1449.4	1446.8	1423.7	1402.4	1412.6
30°	2111.2	1552.9	1241.6	1277.5	1339.9	1367.3	1363.9	1330.5	1286.9	1246.7	1249.3
32.5°	2072.8	1460.5	1196.3	1242.5	1286.9	1298.9	1275.8	1232.2	1169.8	1117.6	1109.9
35°	2040.3	1372.4	1156.1	1202.3	1233.9	1227.9	1205.7	1149.3	1092.8	1046.6	1038.9
37.5°	2035.1	1297.2	1117.6	1156.9	1174.9	1166.4	1139.0	1091.1	1070.6	1035.5	1031.3
40°	2062.5	1244.2	1078.3	1109.1	1117.6	1110.8	1080.8	1053.5	1072.3	1063.7	1063.7
42.5°	2136.9	1216.0	1043.2	1061.2	1068.0	1073.2	1051.8	1028.7	1051.8	1012.4	999.6
45°	2254.9	1216.8	1011.6	1014.1	1034.7	1052.6	1038.1	1003.9	991.9	913.2	897.9
47.5°	2428.5	1245.9	985.9	969.7	1006.5	1036.4	1015.9	966.3	913.2	861.1	851.7
50°	2631.1	1298.0	962.8	923.5	968.8	1015.9	1000.5	942.3	887.6	856.0	850.0
52.5°	2856.0	1363.9	934.6	872.2	922.7	1006.5	1003.9	938.9	863.7	842.3	837.1
55°	3133.9	1428.9	899.6	812.3	881.6	998.8	994.5	910.7	858.5	843.1	841.4
57.5°	3457.2	1522.9	849.1	751.6	834.6	967.1	957.7	893.6	841.4	830.3	829.4
60°	3977.9	1669.2	777.3	696.1	786.7	911.5	923.5	864.5	814.1	811.5	810.6
62.5°	4662.9	1874.4	702.9	638.8	731.1	839.7	873.9	825.2	785.0	797.8	799.5
65°	5608.6	2047.1	625.9	590.0	669.5	770.4	826.9	788.4	752.5	777.3	777.3
67.5°	6225.1	2050.5	555.8	539.6	607.1	712.3	777.3	744.8	710.6	752.5	754.2
70°	6096.9	1796.6	497.7	486.6	546.4	649.9	722.6	696.9	657.6	695.2	681.5
71°	5889.9	1655.5	474.6	466.0	522.5	619.9	696.9	675.5	636.2	661.0	653.3
72.5°	5559.9	1437.4	437.0	438.7	486.6	582.3	661.0	638.8	599.4	613.1	610.5
75°	4699.6	1255.3	373.7	381.4	418.1	518.2	589.2	572.1	531.9	531.9	529.3
77.5°	2938.1	877.3	310.4	314.7	354.9	443.8	506.2	491.7	453.2	440.4	437.0
80°	1096.2	453.2	242.8	248.0	272.8	349.7	419.0	405.3	366.0	351.4	337.8
82.5°	414.7	227.5	178.7	174.4	200.9	266.8	328.4	312.1	281.3	246.3	236.0
85°	156.5	112.9	109.5	106.0	118.0	158.2	203.5	200.1	167.6	142.8	140.2
87.5°	41.0	36.8	42.8	31.6	33.3	29.9	30.8	12.8	6.0	2.6	1.7
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)