

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: P451432

Luminaire Tested: **GALN-SA2B-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11710 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

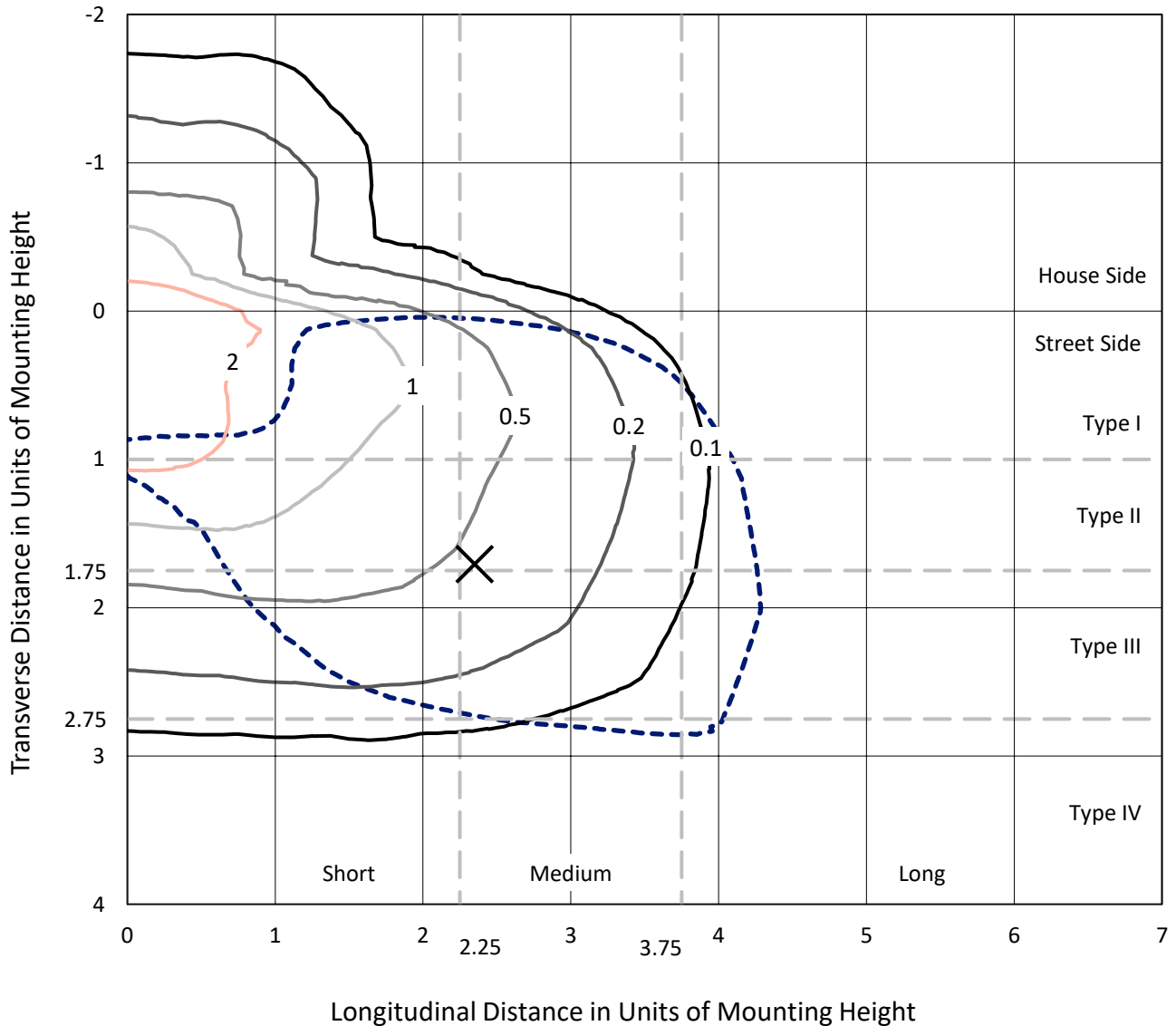
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

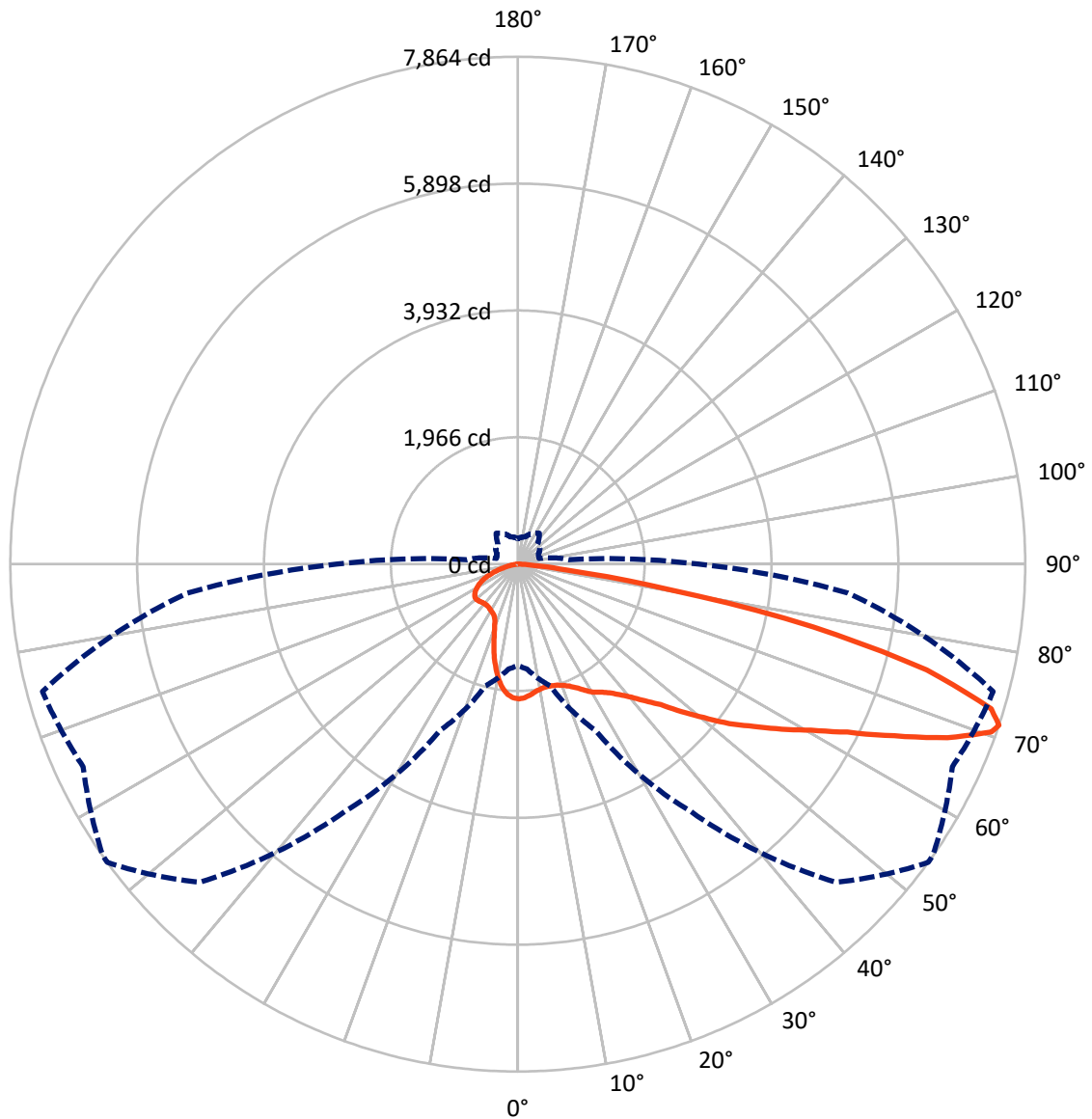
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2114.2	0.0	2114.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9595.8	0.0	9595.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	11710.0	0.0	11710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	1.6
10°-20°	491.6	4.2
20°-30°	818.6	7.0
30°-40°	1210.4	10.3
40°-50°	1704.9	14.6
50°-60°	2282.9	19.5
60°-70°	2877.4	24.6
70°-80°	1965.3	16.8
80°-90°	172.8	1.5
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°	11710.0	100.0
0°-180°	11710.0	100.0

Coefficient of Utilization



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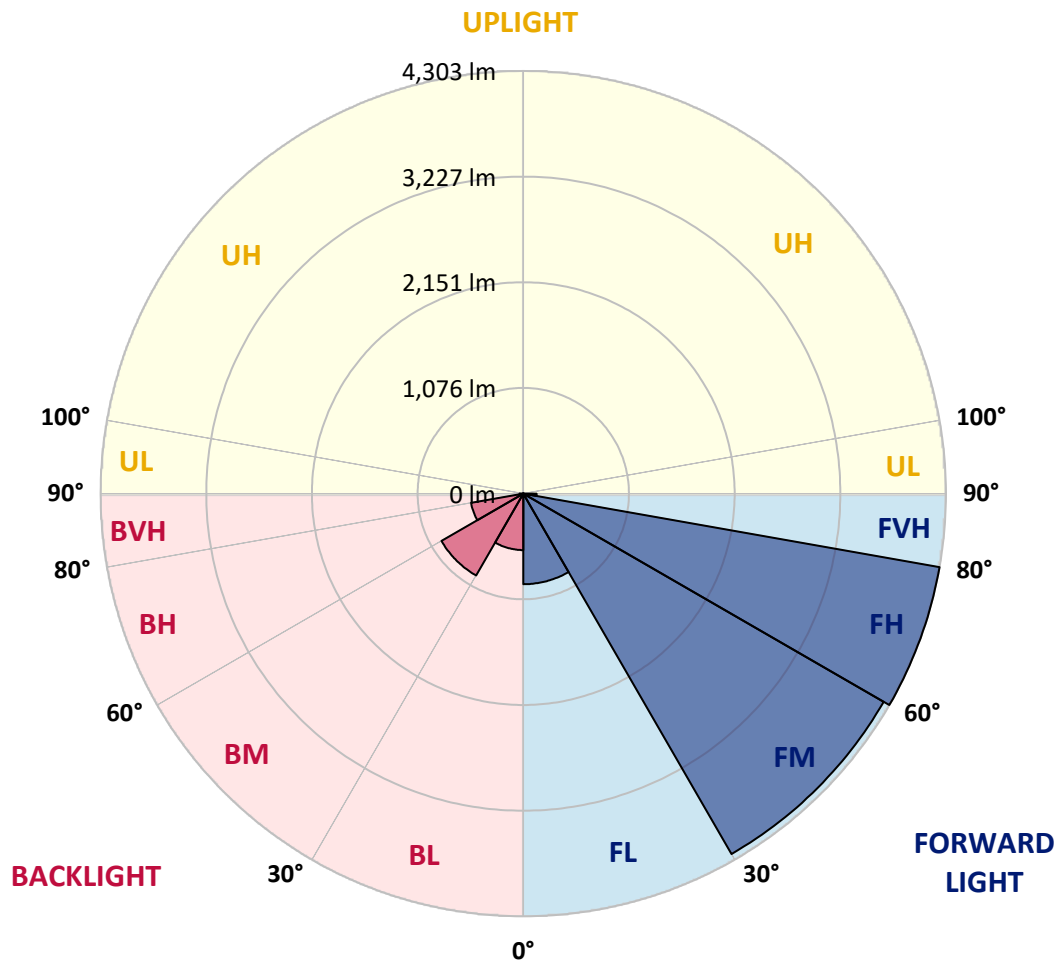
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.8	7.9			
FM	(30°-60°)	4236.3	36.2			
FH	(60°-80°)	4302.7	36.7			G2/5000
FVH	(80°-90°)	135.1	1.2			G2/225
BL	(0°-30°)	574.6	4.9	B2/1000		
BM	(30°-60°)	961.9	8.2	B1/1000		
BH	(60°-80°)	540.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	37.7	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2
2.5°	2018.4	2027.9	2030.4	2036.7	2050.0	2060.8	2071.5	2070.3	2085.4	2091.8	2097.5
5°	1928.6	1931.1	1940.6	1953.2	1976.6	2006.4	2035.5	2036.1	2073.4	2103.2	2117.7
7.5°	1862.8	1871.0	1877.3	1890.6	1915.3	1947.6	1993.7	1997.5	2063.9	2122.8	2153.8
10°	1819.8	1829.3	1836.2	1852.7	1877.3	1913.4	1963.4	1970.3	2057.0	2153.8	2208.2
12.5°	1780.6	1790.1	1796.4	1817.9	1850.1	1894.4	1950.7	1958.9	2059.5	2189.8	2267.6
15°	1804.6	1812.2	1809.7	1816.0	1837.5	1888.1	1955.8	1964.0	2069.0	2224.6	2326.4
17.5°	1911.5	1917.8	1896.9	1872.9	1862.8	1900.1	1971.6	1980.4	2088.0	2260.7	2386.5
20°	2069.0	2086.1	2040.5	1986.8	1938.1	1943.1	2004.5	2014.0	2114.5	2296.7	2447.9
22.5°	2273.9	2286.6	2230.9	2142.4	2052.6	2006.4	2053.8	2059.5	2154.4	2343.5	2514.9
25°	2514.9	2522.5	2445.4	2331.5	2201.8	2114.5	2121.5	2131.6	2220.2	2396.6	2574.4
27.5°	2749.0	2773.0	2683.8	2544.7	2373.9	2228.4	2214.5	2220.8	2291.6	2426.4	2615.5
30°	3026.6	3024.7	2930.5	2769.2	2550.3	2352.4	2302.4	2301.1	2330.2	2440.9	2645.2
32.5°	3248.0	3274.0	3181.6	3005.8	2752.1	2480.8	2363.1	2360.6	2360.0	2466.2	2689.5
35°	3499.8	3503.6	3418.8	3241.7	2970.3	2642.1	2447.9	2435.2	2420.7	2520.6	2749.6
37.5°	3725.0	3742.7	3664.9	3466.2	3184.8	2809.7	2564.3	2556.0	2511.8	2614.9	2845.7
40°	3900.8	3914.1	3867.3	3678.1	3396.0	2990.6	2712.3	2697.1	2643.3	2769.2	2974.1
42.5°	3958.4	3985.6	4003.9	3910.9	3638.9	3205.0	2894.4	2875.5	2834.4	3003.2	3122.2
45°	3962.8	4005.8	4102.6	4107.0	3883.1	3461.8	3107.0	3093.7	3090.5	3303.1	3330.3
47.5°	3929.3	3972.9	4135.5	4223.4	4100.7	3721.2	3413.7	3392.9	3394.8	3673.7	3563.7
50°	3848.3	3900.2	4097.5	4298.0	4270.8	3990.6	3737.6	3730.6	3769.9	4096.9	3805.9
52.5°	3695.9	3758.5	4058.3	4344.8	4397.3	4222.8	4105.7	4086.1	4185.4	4556.1	4070.9
55°	3274.0	3368.2	3914.7	4370.8	4517.5	4444.8	4437.2	4472.6	4604.2	5057.1	4362.5
57.5°	3053.8	3124.7	3602.9	4375.2	4669.3	4702.8	4824.3	4833.1	5063.4	5589.0	4692.1
60°	2933.7	2996.3	3432.1	4346.1	4881.2	5022.3	5220.2	5251.9	5511.8	6165.2	5033.7
62.5°	2828.7	2882.4	3329.6	4245.5	5120.3	5496.0	5733.2	5748.4	6021.0	6801.6	5370.8
65°	2581.3	2642.7	3123.4	4145.0	5326.5	6088.1	6413.8	6396.1	6563.1	7350.6	5582.1
67.5°	2248.0	2325.8	2738.2	3797.7	5428.3	6735.1	7180.4	7158.3	7098.2	7710.5	5642.8
70°	1822.3	1864.1	2245.5	3197.4	5021.6	7074.8	7785.8	7762.4	7429.7	7757.9	5355.6
71°	1568.0	1633.2	1955.1	2840.0	4683.2	6971.1	7863.6	7857.3	7430.3	7627.0	5139.3
72.5°	1223.9	1263.8	1548.4	2200.6	3980.5	6381.6	7671.3	7695.3	7269.0	7263.3	4693.4
75°	774.2	791.9	971.6	1295.4	2184.1	4519.4	6548.6	6613.7	6454.3	5945.1	3490.3
77.5°	449.7	472.5	581.9	763.5	943.7	2452.9	4685.8	4756.6	4484.6	3273.3	1428.9
80°	261.9	287.2	383.3	443.4	433.3	910.2	2385.9	2506.7	1941.9	826.7	401.0
82.5°	145.5	162.6	269.5	270.1	230.9	297.3	750.8	785.6	554.1	333.3	163.8
85°	105.6	119.5	173.9	157.5	110.7	127.8	261.2	273.9	223.9	140.4	53.1
87.5°	37.3	53.1	95.5	75.9	30.4	26.6	75.3	61.4	56.9	39.2	12.0
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°	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2	2089.2
2.5°	2100.6	2101.9	2095.6	2084.2	2072.8	2058.2	2041.8	2029.1	2023.5	2022.8	2022.2
5°	2123.4	2126.6	2102.5	2067.1	2027.9	1979.8	1938.7	1891.9	1879.9	1860.9	1866.6
7.5°	2160.1	2158.2	2110.7	2035.5	1943.8	1841.9	1755.9	1705.9	1654.1	1639.5	1640.1
10°	2212.6	2200.6	2110.7	1971.0	1817.9	1666.7	1546.5	1470.6	1429.5	1395.4	1382.7
12.5°	2268.2	2237.9	2090.5	1880.5	1656.0	1470.6	1341.6	1239.1	1212.6	1184.7	1185.4
15°	2321.4	2270.8	2050.7	1753.4	1481.4	1261.3	1136.0	1074.7	1066.4	1069.6	1069.0
17.5°	2369.4	2294.2	1989.9	1611.7	1277.7	1081.6	1015.2	1019.6	1041.8	1057.6	1059.5
20°	2418.2	2308.1	1899.5	1421.9	1085.4	972.8	975.4	1010.1	1043.7	1065.2	1068.3
22.5°	2464.3	2314.4	1793.2	1238.5	946.3	926.7	964.0	1001.3	1034.2	1055.1	1058.2
25°	2494.7	2299.9	1642.7	1046.8	877.9	910.2	949.4	981.0	1008.9	1030.4	1035.4
27.5°	2502.9	2253.1	1456.1	891.9	846.3	894.4	930.4	953.9	975.4	995.6	999.4
30°	2498.5	2184.1	1251.1	800.8	828.0	876.1	903.9	921.0	946.9	962.7	965.9
32.5°	2491.5	2103.8	1037.3	752.1	812.8	859.0	875.4	890.6	890.0	883.6	888.1
35°	2494.1	2007.6	864.0	723.0	799.5	846.3	860.2	841.3	786.9	784.3	781.8
37.5°	2507.3	1912.8	738.2	702.7	792.6	844.4	852.0	764.7	716.7	694.5	688.8
40°	2541.5	1802.1	655.3	687.6	791.9	859.0	814.7	726.1	633.8	590.8	587.6
42.5°	2587.0	1693.3	604.7	678.1	799.5	881.1	799.5	671.7	571.2	545.9	542.1
45°	2654.7	1568.7	576.9	673.6	810.9	889.3	794.5	631.9	545.9	525.6	525.6
47.5°	2731.3	1449.8	561.7	670.5	825.4	883.6	749.5	619.2	533.9	536.4	548.4
50°	2807.2	1346.7	550.3	663.5	838.1	880.5	731.2	618.6	537.0	569.3	590.8
52.5°	2895.1	1273.9	536.4	652.1	838.1	860.2	725.5	631.3	545.9	555.4	564.8
55°	3001.3	1251.1	518.7	627.5	822.9	809.6	722.3	649.6	552.2	530.1	533.9
57.5°	3141.8	1287.8	501.6	596.5	788.1	757.1	721.1	654.7	537.6	519.3	515.5
60°	3305.0	1360.6	496.5	564.8	740.7	712.2	713.5	640.1	517.4	498.4	501.6
62.5°	3419.4	1404.2	493.4	540.8	688.8	662.9	695.1	622.4	508.6	492.1	495.3
65°	3419.4	1351.1	464.3	504.1	621.8	603.4	673.0	600.3	497.2	478.2	475.0
67.5°	3289.8	1196.1	420.0	449.1	547.8	535.8	642.0	573.7	480.1	465.5	457.9
70°	2952.0	907.0	364.3	384.6	454.2	464.9	602.2	537.6	451.6	433.9	422.5
71°	2803.4	790.0	340.9	351.7	418.1	433.9	583.2	522.5	439.0	413.7	393.4
72.5°	2516.8	665.4	305.5	309.9	357.4	385.8	543.3	493.4	414.9	378.9	356.1
75°	1912.1	485.8	246.1	243.5	264.4	306.1	459.8	439.6	363.7	315.0	301.7
77.5°	826.1	264.4	184.1	186.0	179.6	232.1	361.8	377.6	311.8	256.2	244.2
80°	250.5	152.4	125.9	128.4	120.2	155.6	254.9	296.0	250.5	199.2	182.8
82.5°	128.4	91.1	86.0	84.8	76.5	87.9	154.3	202.4	179.0	124.6	110.1
85°	55.7	48.7	42.4	41.1	36.1	31.6	55.0	101.2	94.9	69.6	66.4
87.5°	13.9	12.7	8.2	7.6	4.4	0.6	0.0	0.0	0.0	0.0	0.0
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)