

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: P522705

Luminaire Tested: **GALN-SA3C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19127 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

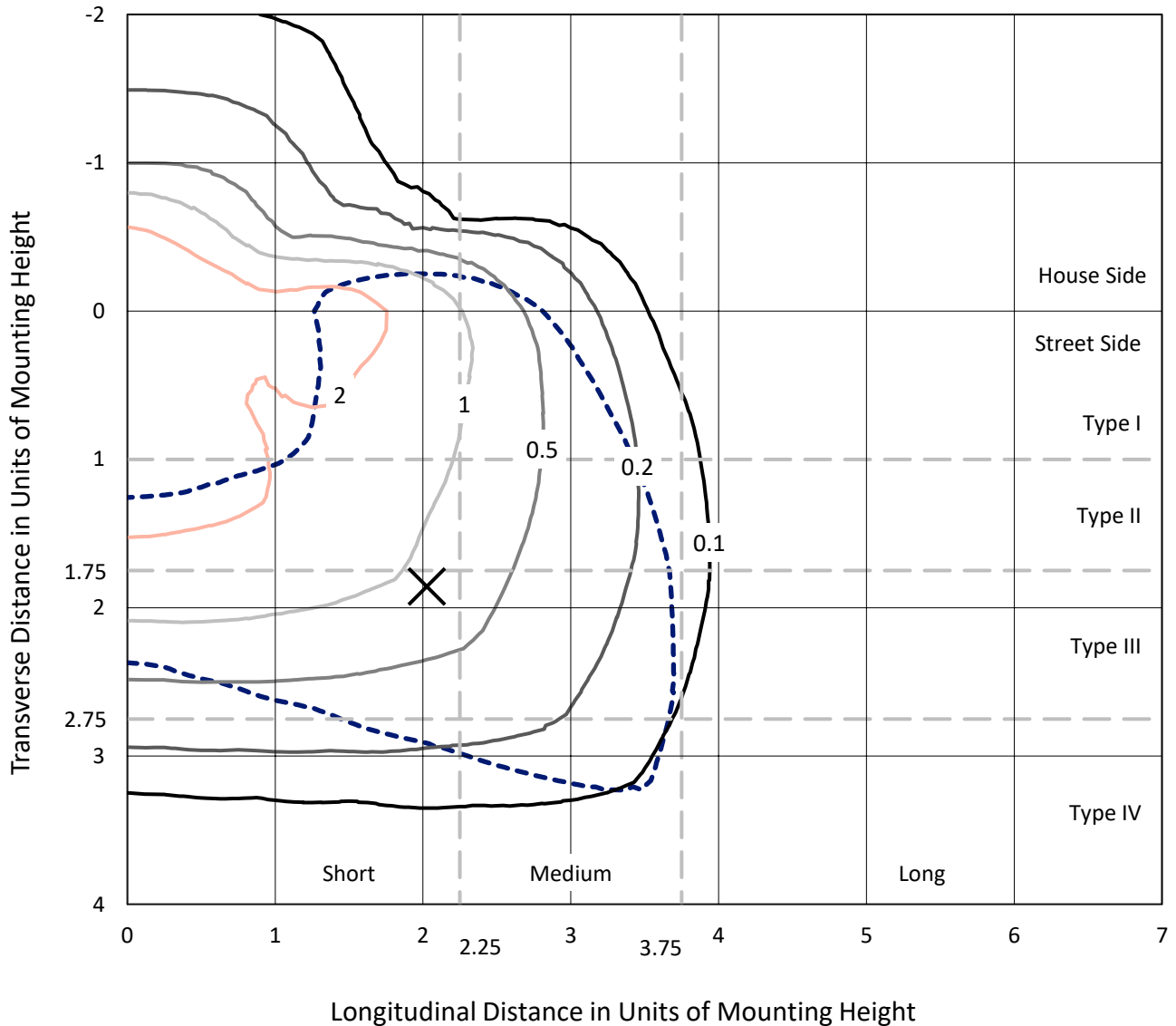
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

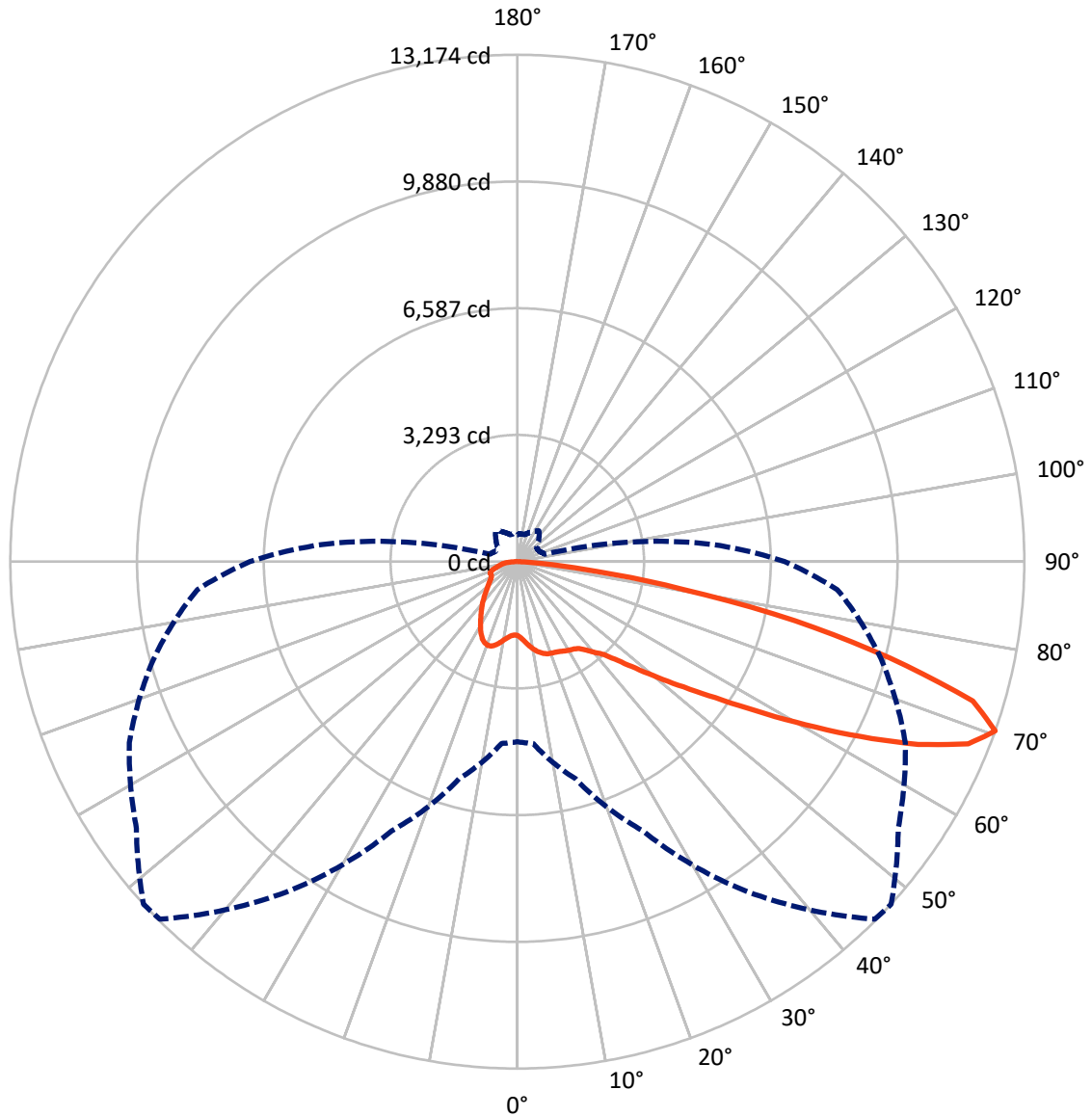
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4330.7	0.0	4330.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14796.3	0.0	14796.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	19127.0	0.0	19127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.0
10°-20°	661.7	3.5
20°-30°	1100.4	5.8
30°-40°	1559.6	8.2
40°-50°	2302.3	12.0
50°-60°	3987.7	20.8
60°-70°	5632.7	29.4
70°-80°	3238.0	16.9
80°-90°	446.8	2.3
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°	19127.0	100.0
0°-180°	19127.0	100.0

Coefficient of Utilization



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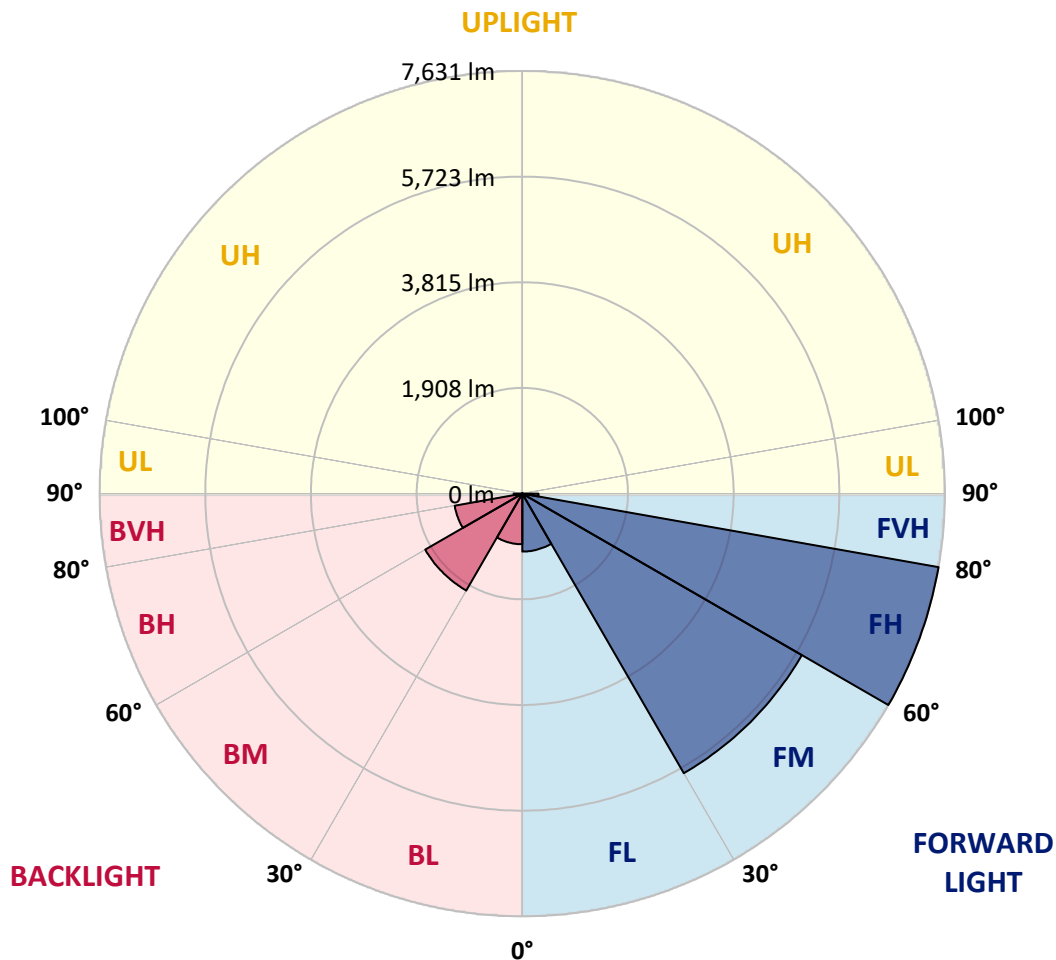
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.9	5.5			
FM	(30°-60°)	5827.6	30.5			
FH	(60°-80°)	7630.9	39.9			G4/12000
FVH	(80°-90°)	291.8	1.5			G3/500
BL	(0°-30°)	914.0	4.8	B2/1000		
BM	(30°-60°)	2021.9	10.6	B2/2500		
BH	(60°-80°)	1239.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	154.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	2044.0	2036.8	2035.8	2020.4	2012.2	1996.9	1990.7	1976.4	1959.0	1941.6	1925.2
5°	2204.7	2204.7	2197.5	2176.0	2142.2	2107.4	2092.1	2064.4	2015.3	1975.4	1941.6
7.5°	2369.4	2371.5	2357.2	2325.4	2277.3	2221.0	2206.7	2165.8	2096.2	2037.8	1987.7
10°	2511.7	2511.7	2492.3	2449.3	2388.9	2327.5	2313.2	2267.1	2189.3	2116.6	2051.1
12.5°	2620.2	2620.2	2594.6	2538.3	2472.8	2417.6	2401.2	2357.2	2284.5	2203.6	2120.7
15°	2690.8	2685.7	2657.1	2593.6	2530.1	2482.0	2470.8	2433.9	2367.4	2285.5	2192.4
17.5°	2693.9	2691.9	2664.2	2611.0	2555.7	2523.0	2515.8	2491.2	2439.0	2361.3	2263.0
20°	2634.5	2638.6	2620.2	2582.3	2555.7	2541.4	2538.3	2530.1	2493.3	2420.6	2322.4
22.5°	2571.1	2578.2	2560.8	2540.4	2538.3	2552.7	2554.7	2556.7	2533.2	2462.6	2372.5
25°	2555.7	2560.8	2543.4	2525.0	2536.3	2574.1	2582.3	2590.5	2572.1	2512.7	2431.9
27.5°	2633.5	2629.4	2595.6	2555.7	2562.9	2614.1	2625.3	2634.5	2625.3	2574.1	2505.6
30°	2853.6	2840.3	2772.7	2656.0	2619.2	2655.0	2666.3	2691.9	2691.9	2654.0	2585.4
32.5°	3222.0	3196.4	3072.6	2843.3	2715.4	2693.9	2705.2	2747.1	2768.6	2738.9	2664.2
35°	3669.3	3642.7	3465.6	3157.6	2891.4	2771.7	2768.6	2815.7	2873.0	2806.5	2709.3
37.5°	4118.6	4091.0	3878.1	3532.2	3148.3	2935.5	2917.0	2933.4	2958.0	2836.2	2771.7
40°	4568.0	4535.2	4348.9	3950.8	3462.6	3152.4	3104.3	3030.6	3020.4	2933.4	2892.5
42.5°	5013.2	4983.5	4889.3	4420.6	3839.2	3364.3	3290.6	3163.7	3202.6	3150.4	3114.6
45°	5462.5	5464.6	5364.3	4947.7	4293.7	3755.3	3656.0	3457.4	3549.6	3530.1	3550.6
47.5°	5860.7	5855.5	5819.7	5459.4	4857.6	4258.9	4130.9	3900.6	4058.3	4129.9	4286.5
50°	6246.5	6243.5	6245.5	6039.8	5512.7	4857.6	4716.4	4474.8	4830.0	5078.7	5359.1
52.5°	6799.2	6816.6	6692.8	6638.5	6309.0	5564.9	5409.3	5159.6	5741.9	6133.9	6681.5
55°	7354.0	7339.7	7242.4	7298.7	7142.1	6402.1	6239.4	6040.8	6757.3	7186.1	8009.0
57.5°	7680.5	7685.6	7784.9	8060.2	8170.7	7446.1	7298.7	7145.2	7898.5	8202.5	9190.2
60°	7974.2	7997.8	8283.3	8803.3	9103.2	8728.6	8597.6	8448.1	8945.6	9066.3	10215.7
62.5°	8066.3	8139.0	8637.5	9415.3	10012.1	10175.8	10013.1	9683.5	9942.5	9895.4	10910.7
65°	7606.8	7706.1	8599.6	9644.6	10823.7	11549.4	11446.0	10833.9	10792.0	10508.5	11024.3
67.5°	6397.0	6496.3	7643.6	9163.6	11159.4	12738.7	12635.3	11673.2	11307.8	10565.8	10164.6
70°	4680.5	4743.0	5840.2	7715.3	10484.9	13137.9	13173.7	12082.6	11123.6	9786.9	8345.8
72.5°	2697.0	2835.1	3603.8	5427.7	8565.8	12128.7	12377.4	11231.1	9958.8	8164.6	5835.1
75°	1159.6	1162.7	1666.3	2993.8	5801.3	9749.0	9989.5	9309.9	7820.7	5645.7	3115.6
77.5°	551.7	561.9	732.8	1336.7	3193.4	6735.8	7384.7	6577.1	5001.9	2712.3	1177.0
80°	358.2	365.4	448.3	663.2	1566.0	3905.7	4358.1	3794.2	2206.7	969.3	507.7
82.5°	217.0	219.0	299.9	405.3	861.8	1768.6	2084.9	1646.8	941.6	580.3	298.9
85°	132.0	133.1	182.2	250.8	523.0	611.0	627.4	622.3	552.7	379.7	159.7
87.5°	63.5	65.5	94.2	118.7	205.7	189.4	179.1	207.8	261.0	204.7	68.6
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°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	1918.1	1915.0	1907.8	1904.8	1902.7	1903.7	1902.7	1902.7	1903.7	1903.7	1903.7
5°	1927.3	1922.2	1910.9	1910.9	1917.1	1931.4	1944.7	1954.9	1966.2	1965.2	1965.2
7.5°	1967.2	1958.0	1944.7	1948.8	1964.1	1986.6	2010.2	2032.7	2055.2	2057.3	2056.2
10°	2025.5	2016.3	2002.0	2007.1	2031.7	2065.5	2095.1	2127.9	2152.5	2159.6	2157.6
12.5°	2092.1	2073.6	2061.4	2075.7	2114.6	2159.6	2188.3	2212.8	2230.2	2240.5	2236.4
15°	2159.6	2142.2	2127.9	2157.6	2204.7	2246.6	2261.0	2265.0	2268.1	2278.4	2276.3
17.5°	2225.1	2201.6	2196.5	2235.4	2280.4	2298.8	2290.6	2273.2	2259.9	2268.1	2267.1
20°	2283.5	2265.0	2263.0	2301.9	2319.3	2301.9	2267.1	2236.4	2212.8	2214.9	2213.9
22.5°	2338.7	2324.4	2326.5	2342.8	2315.2	2255.8	2198.5	2156.6	2131.0	2136.1	2139.2
25°	2400.2	2385.8	2390.9	2364.3	2273.2	2169.9	2087.0	2051.1	2040.9	2051.1	2058.3
27.5°	2480.0	2470.8	2467.7	2365.4	2198.5	2042.9	1948.8	1935.5	1944.7	1967.2	1978.5
30°	2566.0	2566.0	2549.6	2348.0	2096.2	1890.4	1808.6	1810.6	1842.3	1874.1	1885.3
32.5°	2648.9	2666.3	2615.1	2300.9	1964.1	1742.0	1679.6	1681.6	1709.3	1748.2	1758.4
35°	2717.4	2767.6	2671.4	2214.9	1808.6	1617.2	1570.1	1542.4	1543.5	1573.1	1581.3
37.5°	2811.6	2904.7	2704.1	2087.0	1642.7	1510.7	1457.5	1409.4	1377.7	1365.4	1365.4
40°	2975.4	3112.5	2712.3	1897.6	1486.1	1409.4	1333.6	1276.3	1214.9	1159.6	1149.4
42.5°	3252.7	3425.7	2695.9	1679.6	1344.9	1297.8	1224.1	1153.5	1068.6	990.8	984.6
45°	3744.0	3833.1	2651.9	1453.4	1219.0	1190.4	1118.7	1041.9	951.9	882.3	877.2
47.5°	4531.1	4405.2	2593.6	1252.8	1104.4	1096.2	1040.9	951.9	861.8	813.7	808.6
50°	5680.5	5305.9	2585.4	1107.4	1012.3	1016.4	971.3	889.4	810.6	770.7	764.6
52.5°	7064.3	6393.9	2639.7	1005.1	931.4	946.8	924.2	848.5	778.9	745.1	739.0
55°	8407.2	7372.4	2672.4	925.3	855.7	884.3	887.4	823.9	760.5	726.7	722.6
57.5°	9497.2	8109.3	2527.1	852.6	790.2	834.2	856.7	809.6	751.3	725.7	721.6
60°	10255.7	8457.3	2113.6	788.1	742.1	794.3	845.4	810.6	773.8	776.9	778.9
62.5°	10497.2	8302.8	1585.4	740.0	709.3	780.9	863.8	852.6	814.7	838.3	842.4
65°	10097.0	7664.1	1149.4	702.1	680.6	790.2	919.1	883.3	800.4	817.8	817.8
67.5°	8757.2	6602.7	894.6	667.3	647.9	807.6	974.4	880.2	766.6	787.1	768.7
70°	6946.6	5107.4	745.1	628.4	613.1	782.0	979.5	848.5	726.7	730.8	696.0
72.5°	4609.9	3358.2	640.7	591.6	559.9	703.2	937.5	807.6	687.8	664.3	629.5
75°	2258.9	1674.5	558.8	545.5	490.3	612.1	880.2	768.7	645.8	609.0	589.5
77.5°	875.1	712.4	477.0	487.2	426.8	539.4	804.5	713.4	590.6	540.4	525.1
80°	424.8	404.3	391.0	406.3	351.1	459.6	734.9	665.3	539.4	484.1	461.6
82.5°	264.1	249.7	299.9	316.3	270.2	419.6	697.0	624.3	474.9	401.2	382.8
85°	134.1	143.3	200.6	216.0	193.4	333.7	574.2	468.8	342.9	284.5	286.6
87.5°	51.2	68.6	105.4	113.6	103.4	176.0	316.3	273.3	220.1	149.4	138.2
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)