

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: P522713

Luminaire Tested: **GALN-SA3D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522713
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-SA3D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19327 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

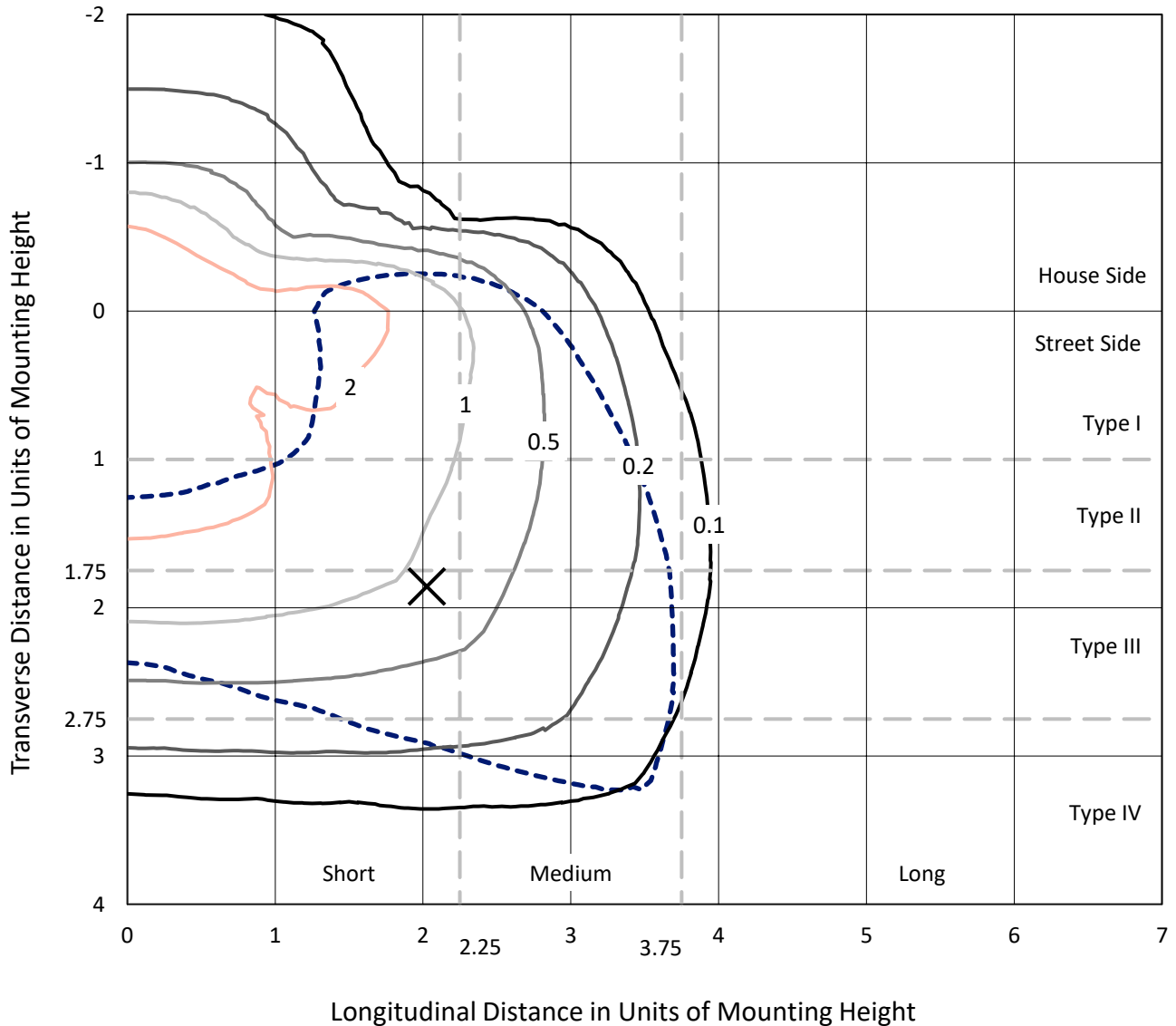
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522713
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Iso-Footcandle Lines of Horizontal Illumination

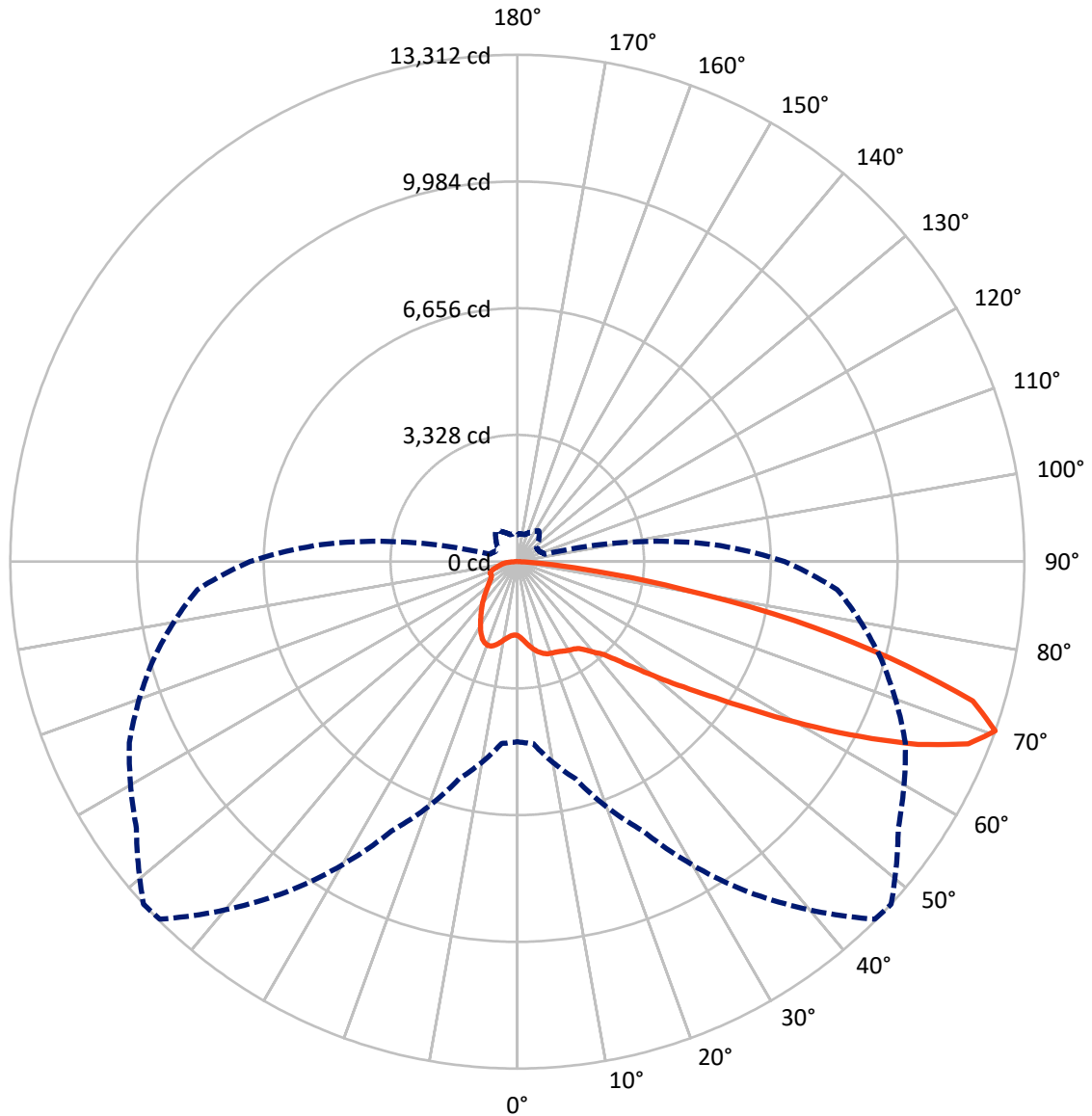
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P522713
CATALOG NUMBER: GALN-SA3D-727-U-T4W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA3D-727-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4376.0	0.0	4376.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14951.0	0.0	14951.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	19327.0	0.0	19327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.0
10°-20°	668.6	3.5
20°-30°	1111.9	5.8
30°-40°	1575.9	8.2
40°-50°	2326.4	12.0
50°-60°	4029.4	20.8
60°-70°	5691.6	29.4
70°-80°	3271.9	16.9
80°-90°	451.4	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°	19327.0	100.0
0°-180°	19327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522713

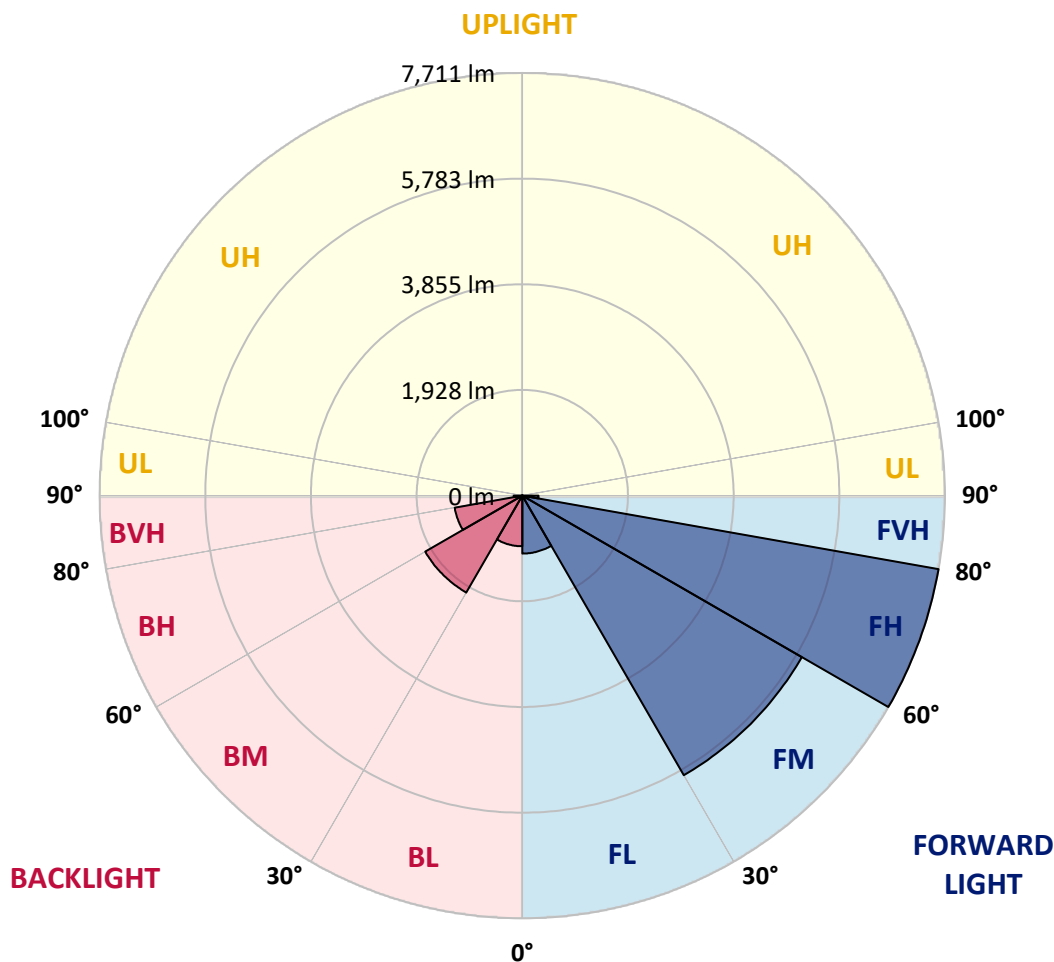
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.9	5.5			
FM	(30°-60°)	5888.6	30.5			
FH	(60°-80°)	7710.7	39.9			G4/12000
FVH	(80°-90°)	294.9	1.5			G3/500
BL	(0°-30°)	923.6	4.8	B2/1000		
BM	(30°-60°)	2043.1	10.6	B2/2500		
BH	(60°-80°)	1252.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	156.5	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°	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2
2.5°	2065.3	2058.1	2057.1	2041.6	2033.3	2017.8	2011.6	1997.1	1979.5	1961.9	1945.4
5°	2227.7	2227.7	2220.5	2198.8	2164.6	2129.5	2113.9	2086.0	2036.4	1996.0	1961.9
7.5°	2394.2	2396.3	2381.8	2349.7	2301.1	2244.3	2229.8	2188.4	2118.1	2059.1	2008.5
10°	2538.0	2538.0	2518.3	2474.9	2413.9	2351.8	2337.3	2290.8	2212.2	2138.8	2072.6
12.5°	2647.6	2647.6	2621.7	2564.9	2498.7	2442.8	2426.3	2381.8	2308.4	2226.7	2142.9
15°	2719.0	2713.8	2684.8	2620.7	2556.6	2508.0	2496.6	2459.4	2392.2	2309.4	2215.3
17.5°	2722.1	2720.0	2692.1	2638.3	2582.4	2549.4	2542.1	2517.3	2464.5	2385.9	2286.7
20°	2662.1	2666.2	2647.6	2609.3	2582.4	2568.0	2564.9	2556.6	2519.4	2445.9	2346.6
22.5°	2598.0	2605.2	2587.6	2566.9	2564.9	2579.3	2581.4	2583.5	2559.7	2488.3	2397.3
25°	2582.4	2587.6	2570.0	2551.4	2562.8	2601.1	2609.3	2617.6	2599.0	2539.0	2457.3
27.5°	2661.1	2656.9	2622.8	2582.4	2589.7	2641.4	2652.8	2662.1	2652.8	2601.1	2531.8
30°	2883.4	2870.0	2801.7	2683.8	2646.6	2682.8	2694.1	2720.0	2720.0	2681.7	2612.4
32.5°	3255.7	3229.9	3104.7	2873.1	2743.8	2722.1	2733.4	2775.8	2797.6	2767.6	2692.1
35°	3707.7	3680.8	3501.9	3190.6	2921.7	2800.7	2797.6	2845.1	2903.1	2835.8	2737.6
37.5°	4161.7	4133.8	3918.7	3569.1	3181.3	2966.1	2947.5	2964.1	2988.9	2865.8	2800.7
40°	4615.7	4582.6	4394.4	3992.1	3498.8	3185.4	3136.8	3062.3	3052.0	2964.1	2922.7
42.5°	5065.6	5035.6	4940.5	4466.8	3879.4	3399.5	3325.0	3196.8	3236.1	3183.3	3147.1
45°	5519.6	5521.7	5420.4	4999.4	4338.6	3794.6	3694.2	3493.6	3586.7	3567.0	3587.7
47.5°	5921.9	5916.8	5880.6	5516.5	4908.4	4303.4	4174.1	3941.4	4100.7	4173.1	4331.3
50°	6311.8	6308.7	6310.8	6102.9	5570.3	4908.4	4765.7	4521.6	4880.5	5131.8	5415.2
52.5°	6870.3	6887.9	6762.8	6708.0	6374.9	5623.1	5465.9	5213.5	5802.0	6198.1	6751.4
55°	7430.9	7416.4	7318.1	7375.0	7216.8	6469.1	6304.6	6104.0	6827.9	7261.3	8092.8
57.5°	7760.8	7766.0	7866.3	8144.5	8256.2	7524.0	7375.0	7219.9	7981.1	8288.2	9286.3
60°	8057.6	8081.4	8369.9	8895.3	9198.4	8819.8	8687.5	8536.5	9039.1	9161.1	10322.6
62.5°	8150.7	8224.1	8727.8	9513.8	10116.7	10282.2	10117.8	9784.8	10046.4	9998.8	11024.8
65°	7686.3	7786.6	8689.5	9745.5	10936.9	11670.1	11565.7	10947.2	10904.8	10618.3	11139.6
67.5°	6463.9	6564.2	7723.6	9259.4	11276.1	12871.9	12767.5	11795.3	11426.1	10676.3	10270.8
70°	4729.5	4792.6	5901.3	7796.0	10594.6	13275.3	13311.5	12209.0	11239.9	9889.2	8433.0
72.5°	2725.2	2864.8	3641.5	5484.5	8655.4	12255.5	12506.8	11348.5	10063.0	8250.0	5896.1
75°	1171.8	1174.9	1683.7	3025.1	5862.0	9851.0	10094.0	9407.3	7902.5	5704.8	3148.2
77.5°	557.4	567.8	740.5	1350.7	3226.8	6806.2	7461.9	6645.9	5054.2	2740.7	1189.4
80°	362.0	369.2	453.0	670.2	1582.4	3946.6	4403.7	3833.9	2229.8	979.4	513.0
82.5°	219.3	221.3	303.0	409.6	870.8	1787.1	2106.7	1664.1	951.5	586.4	302.0
85°	133.4	134.4	184.1	253.4	528.5	617.4	634.0	628.8	558.5	383.7	161.3
87.5°	64.1	66.2	95.1	120.0	207.9	191.3	181.0	209.9	263.7	206.8	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: P522713
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2	1940.2
2.5°	1938.1	1935.0	1927.8	1924.7	1922.6	1923.7	1922.6	1922.6	1923.7	1923.7	1923.7
5°	1947.4	1942.3	1930.9	1930.9	1937.1	1951.6	1965.0	1975.4	1986.7	1985.7	1985.7
7.5°	1987.8	1978.5	1965.0	1969.2	1984.7	2007.4	2031.2	2054.0	2076.7	2078.8	2077.7
10°	2046.7	2037.4	2022.9	2028.1	2052.9	2087.1	2117.1	2150.1	2175.0	2182.2	2180.1
12.5°	2113.9	2095.3	2082.9	2097.4	2136.7	2182.2	2211.2	2236.0	2253.6	2263.9	2259.8
15°	2182.2	2164.6	2150.1	2180.1	2227.7	2270.1	2284.6	2288.7	2291.8	2302.2	2300.1
17.5°	2248.4	2224.6	2219.4	2258.7	2304.2	2322.9	2314.6	2297.0	2283.6	2291.8	2290.8
20°	2307.3	2288.7	2286.7	2326.0	2343.5	2326.0	2290.8	2259.8	2236.0	2238.1	2237.0
22.5°	2363.2	2348.7	2350.8	2367.3	2339.4	2279.4	2221.5	2179.1	2153.2	2158.4	2161.5
25°	2425.2	2410.8	2415.9	2389.1	2297.0	2192.5	2108.8	2072.6	2062.2	2072.6	2079.8
27.5°	2505.9	2496.6	2493.5	2390.1	2221.5	2064.3	1969.2	1955.7	1965.0	1987.8	1999.1
30°	2592.8	2592.8	2576.2	2372.5	2118.1	1910.2	1827.5	1829.5	1861.6	1893.7	1905.0
32.5°	2676.6	2694.1	2642.4	2324.9	1984.7	1760.2	1697.2	1699.2	1727.1	1766.4	1776.8
35°	2745.9	2796.5	2699.3	2238.1	1827.5	1634.1	1586.5	1558.6	1559.6	1589.6	1597.9
37.5°	2841.0	2935.1	2732.4	2108.8	1659.9	1526.5	1472.7	1424.1	1392.1	1379.7	1379.7
40°	3006.5	3145.1	2740.7	1917.4	1501.7	1424.1	1347.6	1289.7	1227.6	1171.8	1161.4
42.5°	3286.8	3461.5	2724.1	1697.2	1359.0	1311.4	1236.9	1165.6	1079.7	1001.1	994.9
45°	3783.2	3873.2	2679.7	1468.6	1231.8	1202.8	1130.4	1052.8	961.8	891.5	886.3
47.5°	4578.5	4451.3	2620.7	1265.9	1115.9	1107.7	1051.8	961.8	870.8	822.2	817.0
50°	5739.9	5361.4	2612.4	1119.0	1022.8	1027.0	981.5	898.7	819.1	778.8	772.6
52.5°	7138.2	6460.8	2667.3	1015.6	941.1	956.7	933.9	857.4	787.0	752.9	746.7
55°	8495.1	7449.5	2700.4	934.9	864.6	893.6	896.7	832.5	768.4	734.3	730.2
57.5°	9596.5	8194.1	2553.5	861.5	798.4	842.9	865.6	818.1	759.1	733.3	729.1
60°	10362.9	8545.8	2135.7	796.4	749.8	802.6	854.3	819.1	781.9	785.0	787.0
62.5°	10607.0	8389.6	1602.0	747.7	716.7	789.1	872.9	861.5	823.2	847.0	851.2
65°	10202.6	7744.2	1161.4	709.5	687.8	798.4	928.7	892.5	808.8	826.3	826.3
67.5°	8848.8	6671.8	903.9	674.3	654.7	816.0	984.6	889.4	774.6	795.3	776.7
70°	7019.3	5160.8	752.9	635.0	619.5	790.1	989.7	857.4	734.3	738.4	703.3
72.5°	4658.1	3393.3	647.4	597.8	565.7	710.5	947.3	816.0	695.0	671.2	636.0
75°	2282.5	1692.0	564.7	551.2	495.4	618.5	889.4	776.7	652.6	615.4	595.7
77.5°	884.3	719.8	481.9	492.3	431.3	545.0	812.9	720.9	596.7	546.1	530.6
80°	429.2	408.5	395.1	410.6	354.7	464.4	742.6	672.2	545.0	489.2	466.4
82.5°	266.8	252.3	303.0	319.6	273.0	424.0	704.3	630.9	479.9	405.4	386.8
85°	135.5	144.8	202.7	218.2	195.5	337.2	580.2	473.7	346.5	287.5	289.6
87.5°	51.7	69.3	106.5	114.8	104.5	177.9	319.6	276.1	222.4	151.0	139.6
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)