

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: P452913

Luminaire Tested: **GALN-SA3D-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16939 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

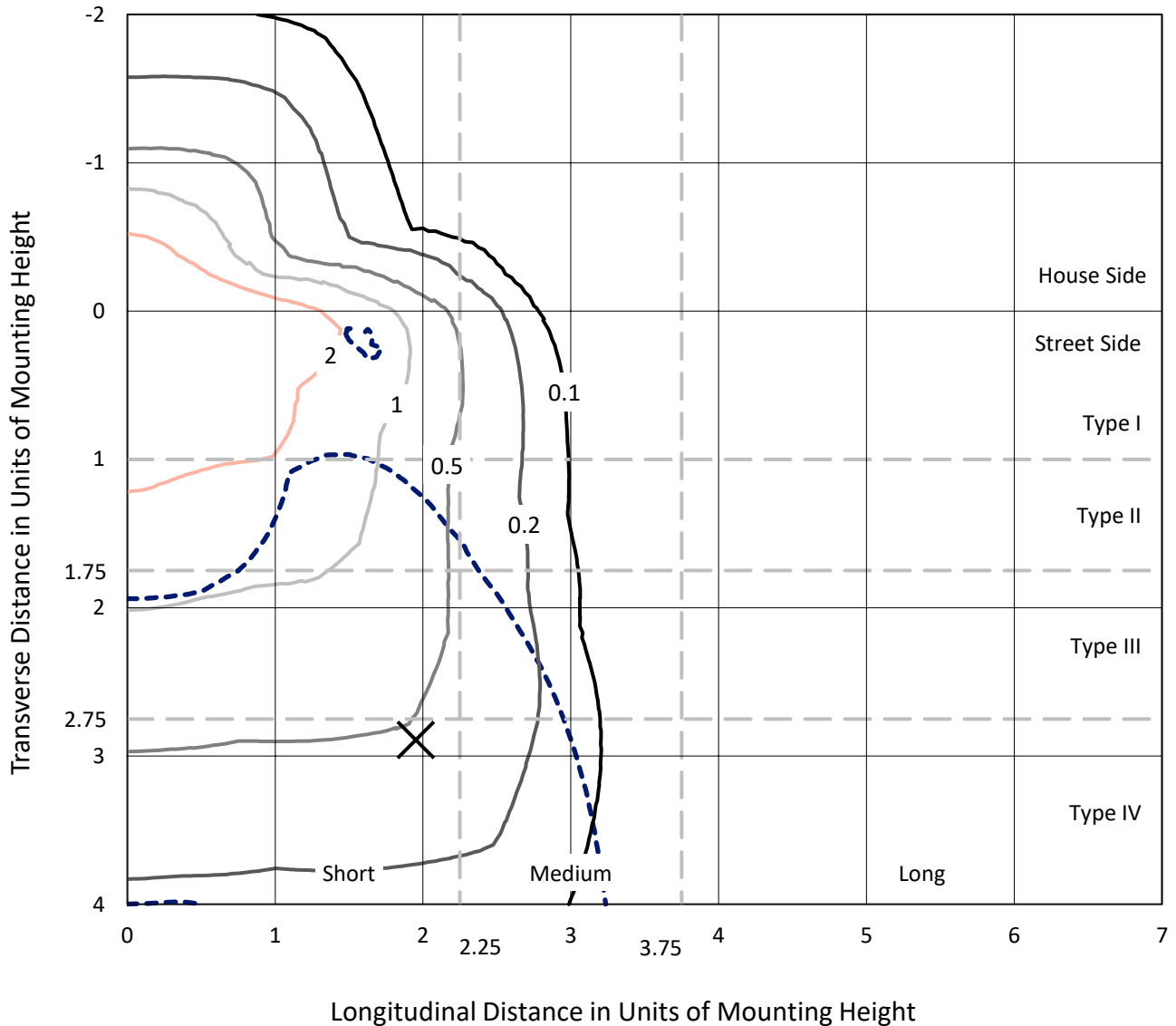
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

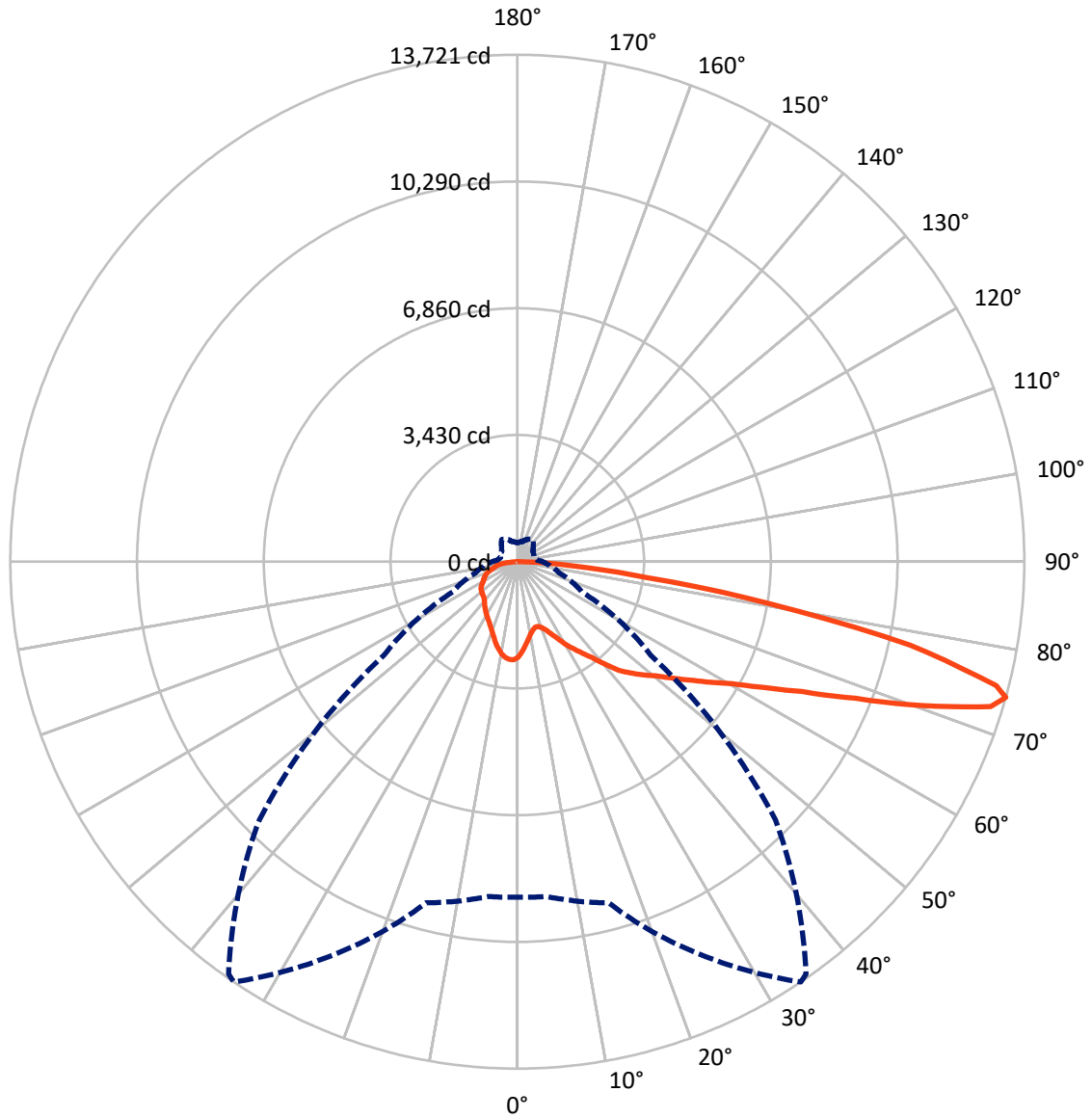
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3604.7	0.0	3604.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	13334.3	0.0	13334.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	16939.0	0.0	16939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.4
10°-20°	643.9	3.8
20°-30°	1061.6	6.3
30°-40°	1590.1	9.4
40°-50°	2311.6	13.6
50°-60°	3228.8	19.1
60°-70°	4042.2	23.9
70°-80°	3342.6	19.7
80°-90°	483.0	2.9
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°	16939.0	100.0
0°-180°	16939.0	100.0

Coefficient of Utilization



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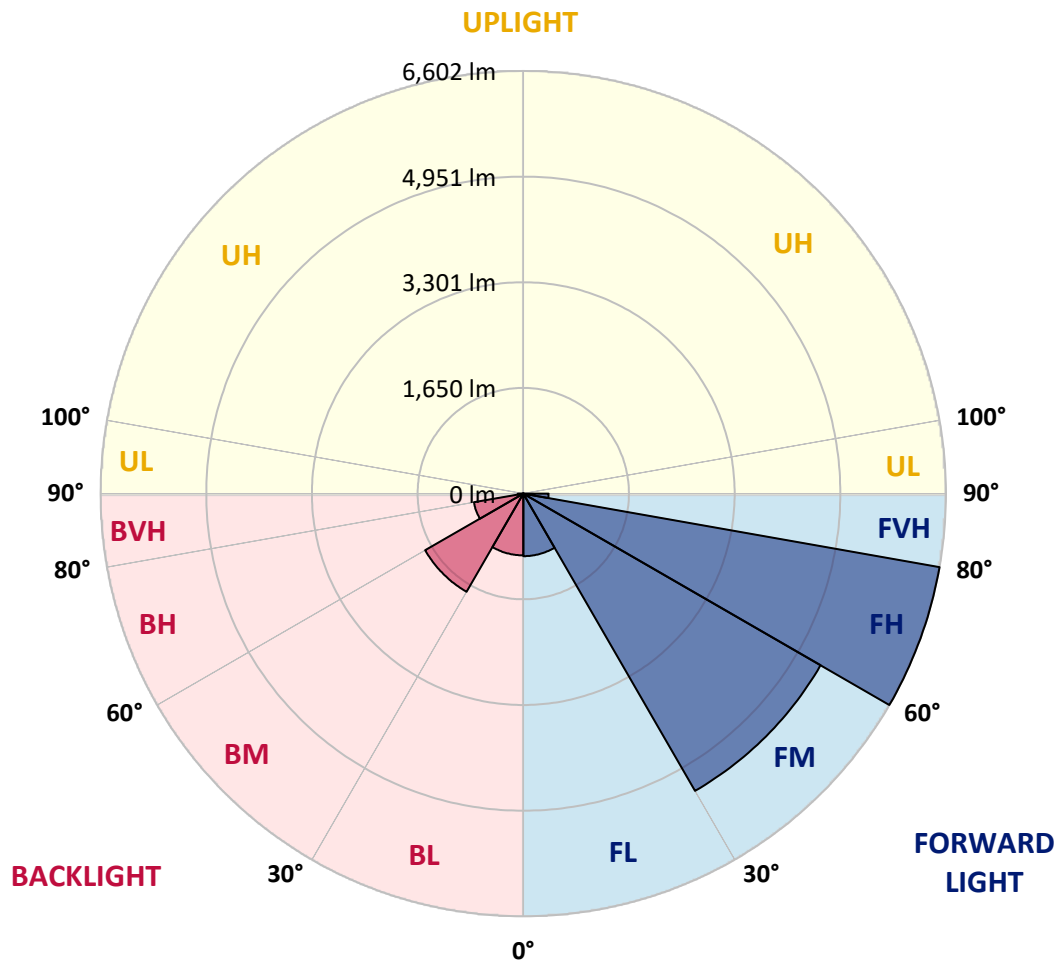
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.5	5.8			
FM	(30°-60°)	5360.2	31.6			
FH	(60°-80°)	6601.9	39.0			G3/7500
FVH	(80°-90°)	395.7	2.3			G3/500
BL	(0°-30°)	964.2	5.7	B2/1000		
BM	(30°-60°)	1770.3	10.5	B2/2500		
BH	(60°-80°)	782.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	87.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3
2.5°	2390.1	2402.3	2408.9	2432.4	2438.0	2445.5	2465.2	2491.5	2525.3	2555.3	2581.6
5°	2191.2	2209.9	2221.2	2241.9	2282.2	2286.0	2338.5	2398.6	2467.1	2530.9	2583.4
7.5°	2002.6	2023.2	2032.6	2070.1	2123.6	2132.1	2209.0	2303.8	2418.3	2514.9	2595.6
10°	1860.9	1871.2	1891.8	1920.0	1983.8	1989.4	2089.8	2216.5	2364.8	2507.4	2616.3
12.5°	1783.9	1789.5	1794.2	1824.3	1887.1	1895.6	2000.7	2144.3	2322.6	2513.1	2650.1
15°	1795.2	1797.0	1776.4	1782.0	1832.7	1844.9	1949.1	2096.4	2296.3	2527.1	2700.7
17.5°	1890.0	1883.4	1832.7	1806.4	1842.1	1847.7	1938.7	2077.6	2284.1	2553.4	2753.3
20°	2039.2	2029.8	1942.5	1884.3	1905.0	1909.7	1972.5	2091.7	2296.3	2596.6	2834.9
22.5°	2225.0	2221.2	2088.9	2018.5	2017.6	2017.6	2050.4	2142.4	2332.9	2655.7	2920.3
25°	2484.9	2465.2	2292.5	2201.5	2176.2	2174.3	2170.5	2225.9	2379.8	2718.6	3021.7
27.5°	2751.4	2717.6	2563.7	2423.9	2369.5	2362.9	2338.5	2344.1	2439.9	2789.9	3137.1
30°	2990.7	2969.1	2824.6	2669.8	2605.0	2590.0	2522.4	2491.5	2540.3	2918.4	3321.0
32.5°	3173.7	3160.6	3047.9	2907.2	2811.5	2808.7	2710.1	2684.8	2697.0	3074.2	3531.2
35°	3322.0	3326.7	3269.4	3147.4	3037.6	3021.7	2956.0	2924.1	2888.4	3299.4	3795.9
37.5°	3524.7	3535.0	3531.2	3426.1	3291.9	3295.7	3280.7	3228.1	3133.3	3550.9	4089.6
40°	3748.0	3755.5	3754.6	3714.2	3643.8	3647.6	3642.0	3581.9	3440.2	3870.9	4416.1
42.5°	4056.7	4021.1	3928.2	3968.5	4009.8	4027.6	4066.1	4008.9	3814.6	4212.5	4723.0
45°	4402.1	4334.5	4124.3	4143.1	4296.0	4329.8	4541.9	4463.1	4221.0	4604.8	5084.3
47.5°	4619.8	4553.2	4375.8	4372.0	4574.7	4607.6	4982.9	4953.9	4590.7	5028.0	5525.3
50°	4814.0	4804.6	4604.8	4652.6	4850.6	4899.4	5463.4	5436.2	4959.5	5527.2	6005.8
52.5°	5102.1	5026.1	4866.6	4965.1	5226.9	5290.7	5940.1	5860.4	5298.2	5968.3	6472.2
55°	5231.6	5213.8	5204.4	5289.8	5649.2	5695.2	6403.7	6220.7	5587.3	6341.8	6826.9
57.5°	5577.9	5545.0	5638.0	5696.1	6146.6	6216.9	6887.9	6597.0	5840.6	6638.3	6999.6
60°	6026.5	6008.6	6094.0	6199.1	6702.1	6809.1	7439.7	6917.9	6044.3	6787.5	6904.8
62.5°	6696.5	6694.6	6678.6	6903.9	7489.4	7588.0	8073.1	7230.4	6076.2	6675.8	6415.0
65°	7657.4	7623.6	7484.7	7730.6	8469.1	8584.5	8732.8	7405.0	5883.8	6102.5	5401.5
67.5°	8662.4	8660.6	8548.0	8867.0	9875.8	9995.0	9557.7	7366.5	5349.9	4943.5	3836.2
70°	9495.7	9455.4	9599.0	10449.2	11672.8	11810.8	10279.3	6913.2	4261.3	3264.7	2279.4
72.5°	9695.6	9697.5	9995.9	11669.1	13398.6	13420.2	10539.3	5603.2	2851.8	1800.8	1140.2
74°	9080.0	9096.0	9558.6	11730.1	13720.5	13622.9	9874.9	4403.9	1928.4	1175.8	822.0
75°	8288.0	8187.6	8856.7	11323.8	13386.4	13281.3	9096.9	3534.0	1471.4	939.3	719.8
77.5°	4431.2	4533.4	5565.7	8450.4	10875.2	10754.1	6168.2	1694.8	794.8	654.1	518.0
80°	1577.5	1739.8	2445.5	4421.8	6972.4	7009.9	2943.8	777.0	559.3	482.3	366.0
82.5°	643.7	661.6	1050.1	1962.2	3540.6	3574.4	1202.1	461.7	399.8	332.2	218.6
85°	251.5	259.0	464.5	882.1	1510.8	1609.4	415.7	244.0	245.9	190.5	111.7
87.5°	84.5	95.7	190.5	293.7	513.3	503.0	121.1	72.3	88.2	82.6	34.7
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°	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3
2.5°	2594.7	2612.5	2624.7	2637.9	2650.1	2653.8	2651.0	2659.4	2660.4	2661.3	2662.3
5°	2609.7	2634.1	2657.6	2670.7	2676.3	2671.6	2655.7	2647.2	2639.7	2634.1	2636.0
7.5°	2630.4	2665.1	2686.7	2692.3	2677.3	2655.7	2616.3	2585.3	2565.6	2552.5	2551.5
10°	2662.3	2696.0	2713.9	2697.9	2656.6	2604.1	2542.1	2484.0	2439.9	2426.7	2425.8
12.5°	2702.6	2741.1	2740.1	2693.2	2621.0	2527.1	2426.7	2359.2	2299.1	2269.1	2281.3
15°	2755.2	2784.3	2757.0	2672.6	2558.1	2429.5	2305.7	2213.7	2146.1	2114.2	2116.1
17.5°	2816.2	2841.5	2769.2	2636.0	2469.9	2304.7	2161.2	2073.9	2020.4	1996.9	1995.1
20°	2892.2	2899.7	2769.2	2572.2	2356.3	2159.3	2022.3	1961.3	1931.2	1919.0	1922.8
22.5°	2973.8	2958.8	2754.2	2482.1	2207.1	2007.3	1915.3	1888.1	1873.1	1871.2	1873.1
25°	3065.8	3023.5	2723.3	2360.1	2051.4	1875.9	1822.4	1827.1	1829.9	1829.9	1836.5
27.5°	3178.4	3093.9	2671.6	2206.2	1869.3	1753.9	1738.9	1771.7	1786.7	1789.5	1794.2
30°	3326.7	3170.9	2586.3	2013.8	1714.5	1644.1	1670.4	1714.5	1731.4	1741.7	1739.8
32.5°	3503.1	3255.3	2470.8	1821.4	1589.7	1567.1	1599.0	1644.1	1662.9	1668.5	1661.0
35°	3710.5	3351.1	2318.8	1641.3	1480.8	1493.9	1531.5	1545.6	1562.4	1562.4	1566.2
37.5°	3933.8	3428.0	2133.0	1476.1	1396.3	1444.2	1471.4	1458.3	1450.8	1441.4	1446.1
40°	4160.9	3485.2	1891.8	1312.8	1311.9	1392.6	1400.1	1362.6	1332.5	1323.2	1318.5
42.5°	4358.9	3520.9	1674.1	1186.1	1232.1	1341.9	1347.6	1287.5	1239.6	1211.5	1202.1
45°	4592.6	3562.2	1461.1	1081.0	1158.0	1301.6	1315.6	1234.9	1164.6	1105.4	1090.4
47.5°	4912.6	3656.0	1293.1	999.4	1104.5	1276.2	1295.9	1191.8	1098.9	1021.9	1009.7
50°	5273.8	3784.6	1162.7	944.0	1063.2	1253.7	1278.1	1147.7	1037.9	952.5	943.1
52.5°	5605.1	3854.0	1050.1	894.3	1022.9	1212.4	1254.7	1115.8	977.8	883.0	874.6
55°	5786.2	3741.4	939.3	845.5	967.5	1158.9	1221.8	1071.7	919.6	846.4	834.2
57.5°	5810.6	3508.7	838.9	793.0	909.3	1093.2	1160.8	1018.2	882.1	821.1	810.8
60°	5622.0	3161.5	761.0	749.8	850.2	1019.1	1092.3	971.3	843.6	793.0	782.6
62.5°	5152.8	2784.3	706.6	710.4	790.1	941.2	1041.6	926.2	807.0	762.0	752.6
65°	4345.8	2298.2	654.1	670.0	736.6	880.2	995.7	888.7	770.4	738.5	730.1
67.5°	3018.9	1659.1	610.9	627.8	686.0	818.3	942.2	848.3	729.1	712.3	699.1
70°	1671.3	1021.0	560.2	579.9	633.4	748.8	882.1	787.3	669.1	661.6	642.8
72.5°	878.3	650.3	503.0	524.6	562.1	659.7	790.1	720.7	610.0	578.1	553.7
74°	686.0	533.0	464.5	487.0	512.4	607.1	735.7	672.8	567.7	530.2	511.4
75°	597.8	474.8	431.7	460.8	483.3	571.5	693.5	639.1	544.3	508.6	491.7
77.5°	422.3	355.7	352.8	387.6	399.8	501.1	625.0	581.8	485.2	447.6	431.7
80°	296.5	266.5	279.6	301.2	318.1	442.9	579.9	503.0	397.9	353.8	348.1
82.5°	193.3	174.5	199.9	219.6	225.2	326.6	468.3	381.9	290.0	235.5	218.6
85°	89.1	87.3	114.5	111.7	110.7	159.5	277.8	223.3	167.0	124.8	117.3
87.5°	22.5	21.6	28.2	23.5	28.2	24.4	25.3	6.6	0.9	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)