

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: P453029

Luminaire Tested: **GALN-SA4A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453029
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-SA4A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 16439 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

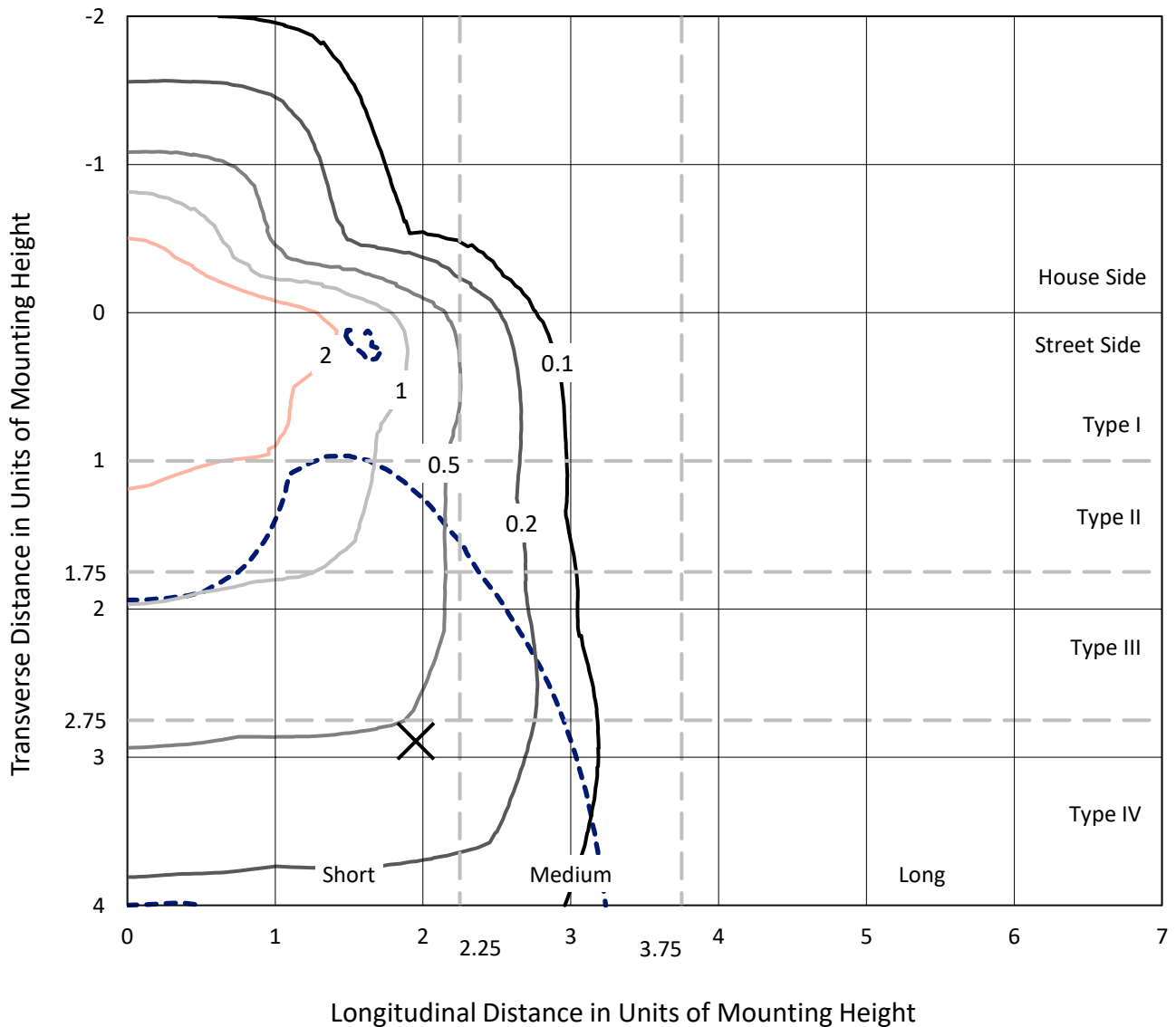
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

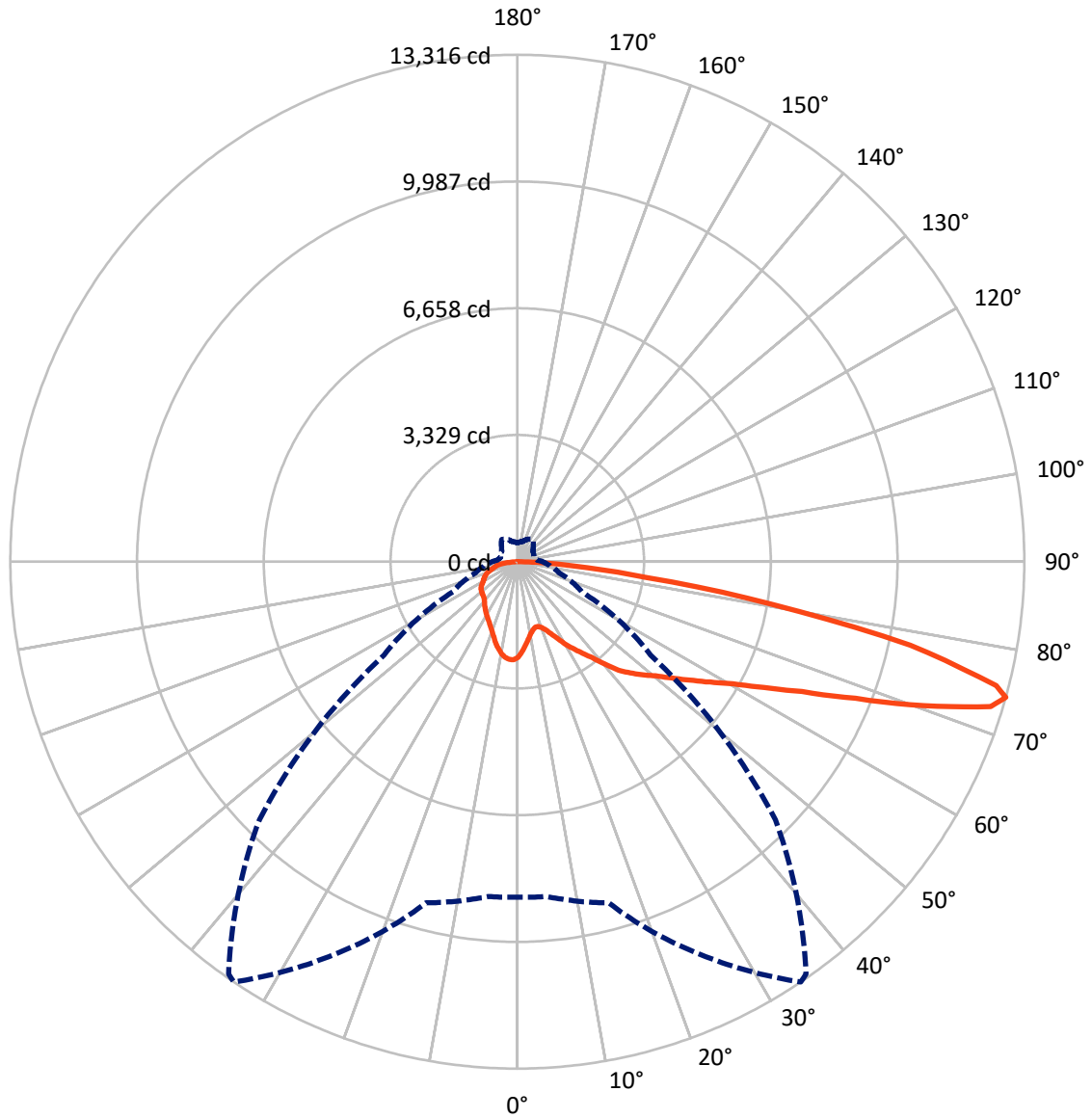
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3498.3	0.0	3498.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	12940.7	0.0	12940.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	16439.0	0.0	16439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.4
10°-20°	624.9	3.8
20°-30°	1030.2	6.3
30°-40°	1543.2	9.4
40°-50°	2243.4	13.6
50°-60°	3133.5	19.1
60°-70°	3922.9	23.9
70°-80°	3243.9	19.7
80°-90°	468.7	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°	16439.0	100.0
0°-180°	16439.0	100.0

Coefficient of Utilization



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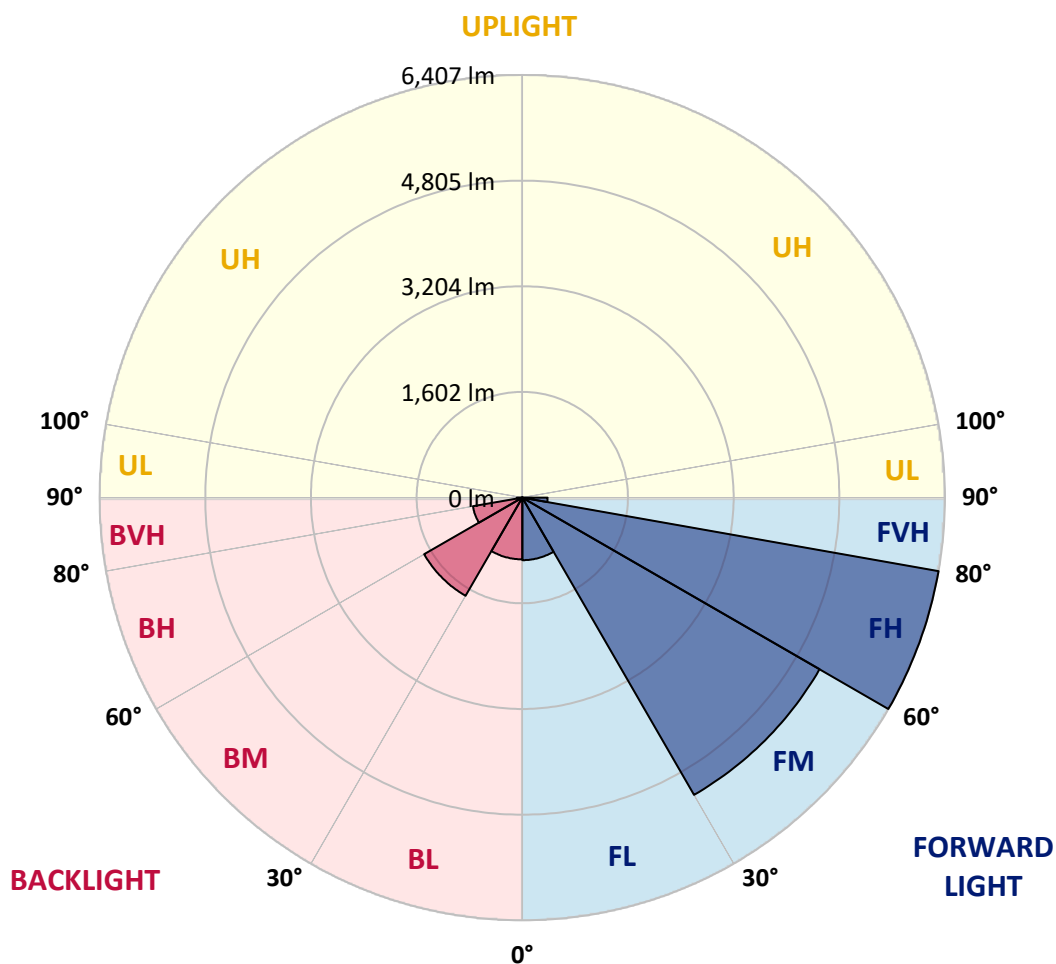
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.6	5.8			
FM (30°-60°)	5202.0	31.6			
FH (60°-80°)	6407.1	39.0			G3/7500
FVH (80°-90°)	384.0	2.3			G3/500
BL (0°-30°)	935.7	5.7	B2/1000		
BM (30°-60°)	1718.0	10.5	B2/2500		
BH (60°-80°)	759.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	84.7	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°	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9
2.5°	2319.6	2331.4	2337.8	2360.6	2366.0	2373.3	2392.4	2417.9	2450.7	2479.9	2505.4
5°	2126.5	2144.7	2155.6	2175.7	2214.8	2218.5	2269.5	2327.8	2394.3	2456.2	2507.2
7.5°	1943.5	1963.5	1972.6	2009.0	2060.9	2069.1	2143.8	2235.8	2346.9	2440.7	2519.0
10°	1805.9	1816.0	1836.0	1863.3	1925.2	1930.7	2028.1	2151.1	2295.0	2433.4	2539.1
12.5°	1731.3	1736.7	1741.3	1770.4	1831.4	1839.6	1941.6	2081.0	2254.0	2438.9	2571.8
15°	1742.2	1744.0	1724.0	1729.4	1778.6	1790.5	1891.5	2034.5	2228.5	2452.5	2621.0
17.5°	1834.2	1827.8	1778.6	1753.1	1787.7	1793.2	1881.5	2016.3	2216.7	2478.0	2672.0
20°	1979.0	1969.9	1885.2	1828.7	1848.7	1853.3	1914.3	2030.0	2228.5	2519.9	2751.2
22.5°	2159.3	2155.6	2027.2	1958.9	1958.0	1958.0	1989.9	2079.1	2264.0	2577.3	2834.1
25°	2411.6	2392.4	2224.9	2136.5	2111.9	2110.1	2106.5	2160.2	2309.6	2638.3	2932.5
27.5°	2670.2	2637.4	2488.1	2352.4	2299.5	2293.2	2269.5	2274.9	2367.8	2707.5	3044.5
30°	2902.4	2881.5	2741.2	2591.0	2528.1	2513.6	2448.0	2417.9	2465.3	2832.3	3223.0
32.5°	3080.0	3067.3	2958.0	2821.4	2728.5	2725.7	2630.1	2605.5	2617.4	2983.5	3427.0
35°	3223.9	3228.5	3172.9	3054.5	2948.0	2932.5	2868.7	2837.8	2803.2	3202.0	3683.8
37.5°	3420.6	3430.6	3427.0	3325.0	3194.8	3198.4	3183.8	3132.8	3040.9	3446.1	3968.9
40°	3637.4	3644.7	3643.7	3604.6	3536.3	3539.9	3534.5	3476.2	3338.7	3756.7	4285.8
42.5°	3937.0	3902.4	3812.2	3851.4	3891.5	3908.8	3946.1	3890.5	3702.0	4088.2	4583.6
45°	4272.1	4206.6	4002.6	4020.8	4169.2	4202.0	4407.8	4331.3	4096.4	4468.8	4934.2
47.5°	4483.4	4418.8	4246.6	4243.0	4439.7	4471.6	4835.9	4807.6	4455.2	4879.6	5362.2
50°	4671.9	4662.8	4468.8	4515.3	4707.4	4754.8	5302.1	5275.7	4813.1	5364.1	5828.5
52.5°	4951.5	4877.7	4722.9	4818.6	5072.6	5134.6	5764.8	5687.4	5141.9	5792.1	6281.2
55°	5077.2	5059.9	5050.8	5133.7	5482.5	5527.1	6214.7	6037.1	5422.4	6154.6	6625.4
57.5°	5413.2	5381.4	5471.5	5528.0	5965.1	6033.4	6684.6	6402.3	5668.2	6442.3	6793.0
60°	5848.6	5831.3	5914.1	6016.1	6504.3	6608.1	7220.1	6713.7	5865.9	6587.1	6701.0
62.5°	6498.8	6497.0	6481.5	6700.1	7268.4	7364.0	7834.8	7017.0	5896.8	6478.8	6225.6
65°	7431.4	7398.6	7263.8	7502.4	8219.1	8331.2	8475.0	7186.4	5710.1	5922.3	5242.0
67.5°	8406.7	8404.9	8295.6	8605.3	9584.3	9699.9	9275.6	7149.1	5191.9	4797.6	3723.0
70°	9215.5	9176.3	9315.6	10140.7	11328.3	11462.2	9975.9	6709.2	4135.5	3168.4	2212.1
72.5°	9409.4	9411.3	9700.9	11324.6	13003.1	13024.0	10228.2	5437.8	2767.6	1747.6	1106.5
74°	8812.0	8827.5	9276.5	11383.8	13315.5	13220.7	9583.4	4274.0	1871.5	1141.1	797.8
75°	8043.4	7945.9	8595.3	10989.5	12991.2	12889.2	8828.4	3429.7	1428.0	911.6	698.5
77.5°	4300.4	4399.6	5401.4	8200.9	10554.2	10436.7	5986.1	1644.7	771.4	634.8	502.7
80°	1530.9	1688.5	2373.3	4291.3	6766.6	6803.0	2856.9	754.1	542.8	468.1	355.2
82.5°	624.7	642.0	1019.1	1904.3	3436.1	3468.9	1166.6	448.1	388.0	322.4	212.2
85°	244.1	251.4	450.8	856.1	1466.2	1561.9	403.4	236.8	238.6	184.9	108.4
87.5°	82.0	92.9	184.9	285.1	498.2	488.1	117.5	70.1	85.6	80.1	33.7
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°	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9	2509.9
2.5°	2518.1	2535.4	2547.2	2560.0	2571.8	2575.5	2572.7	2580.9	2581.9	2582.8	2583.7
5°	2532.7	2556.4	2579.1	2591.9	2597.3	2592.8	2577.3	2569.1	2561.8	2556.4	2558.2
7.5°	2552.7	2586.4	2607.4	2612.8	2598.2	2577.3	2539.1	2509.0	2489.9	2477.1	2476.2
10°	2583.7	2616.5	2633.8	2618.3	2578.2	2527.2	2467.1	2410.6	2367.8	2355.1	2354.2
12.5°	2622.8	2660.2	2659.3	2613.7	2543.6	2452.5	2355.1	2289.5	2231.2	2202.1	2213.9
15°	2673.8	2702.1	2675.7	2593.7	2482.6	2357.8	2237.6	2148.4	2082.8	2051.8	2053.6
17.5°	2733.0	2757.6	2687.5	2558.2	2397.0	2236.7	2097.4	2012.7	1960.8	1938.0	1936.2
20°	2806.8	2814.1	2687.5	2496.2	2286.8	2095.5	1962.6	1903.4	1874.2	1862.4	1866.0
22.5°	2886.0	2871.5	2672.9	2408.8	2142.0	1948.0	1858.8	1832.3	1817.8	1816.0	1817.8
25°	2975.3	2934.3	2642.9	2290.4	1990.8	1820.5	1768.6	1773.1	1775.9	1775.9	1782.3
27.5°	3084.6	3002.6	2592.8	2141.1	1814.1	1702.1	1687.5	1719.4	1734.0	1736.7	1741.3
30°	3228.5	3077.3	2509.9	1954.4	1663.9	1595.6	1621.1	1663.9	1680.3	1690.3	1688.5
32.5°	3399.7	3159.2	2397.9	1767.7	1542.7	1520.9	1551.8	1595.6	1613.8	1619.2	1612.0
35°	3600.9	3252.1	2250.4	1592.8	1437.1	1449.8	1486.3	1499.9	1516.3	1516.3	1520.0
37.5°	3817.7	3326.8	2070.0	1432.5	1355.1	1401.6	1428.0	1415.2	1408.0	1398.8	1403.4
40°	4038.1	3382.4	1836.0	1274.1	1273.2	1351.5	1358.8	1322.3	1293.2	1284.1	1279.5
42.5°	4230.2	3417.0	1624.7	1151.1	1195.8	1302.3	1307.8	1249.5	1203.0	1175.7	1166.6
45°	4457.0	3457.0	1418.0	1049.1	1123.8	1263.2	1276.8	1198.5	1130.2	1072.8	1058.2
47.5°	4767.6	3548.1	1255.0	969.9	1071.9	1238.6	1257.7	1156.6	1066.4	991.8	979.9
50°	5118.2	3672.9	1128.4	916.2	1031.8	1216.7	1240.4	1113.8	1007.2	924.4	915.3
52.5°	5439.7	3740.3	1019.1	867.9	992.7	1176.6	1217.6	1082.8	949.0	857.0	848.8
55°	5615.4	3631.0	911.6	820.5	938.9	1124.7	1185.7	1040.0	892.5	821.5	809.6
57.5°	5639.1	3405.1	814.2	769.5	882.5	1061.0	1126.5	988.1	856.1	796.9	786.9
60°	5456.0	3068.2	738.6	727.7	825.1	989.0	1060.1	942.6	818.7	769.5	759.5
62.5°	5000.7	2702.1	685.8	689.4	766.8	913.4	1010.9	898.9	783.2	739.5	730.4
65°	4217.5	2230.3	634.8	650.2	714.9	854.2	966.3	862.4	747.7	716.7	708.5
67.5°	2929.7	1610.1	592.9	609.3	665.7	794.1	914.4	823.3	707.6	691.2	678.5
70°	1622.0	990.8	543.7	562.8	614.7	726.7	856.1	764.1	649.3	642.0	623.8
72.5°	852.4	631.1	488.1	509.1	545.5	640.2	766.8	699.4	592.0	561.0	537.3
74°	665.7	517.3	450.8	472.7	497.2	589.2	714.0	653.0	551.0	514.5	496.3
75°	580.1	460.8	418.9	447.2	469.0	554.6	673.0	620.2	528.2	493.6	477.2
77.5°	409.8	345.2	342.4	376.1	388.0	486.3	606.5	564.6	470.8	434.4	418.9
80°	287.8	258.6	271.4	292.3	308.7	429.9	562.8	488.1	386.1	343.3	337.9
82.5°	187.6	169.4	194.0	213.1	218.6	316.9	454.4	370.7	281.4	228.6	212.2
85°	86.5	84.7	111.1	108.4	107.5	154.8	269.6	216.7	162.1	121.1	113.8
87.5°	21.9	20.9	27.3	22.8	27.3	23.7	24.6	6.4	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)