

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: P452101

Luminaire Tested: **GALN-SA3A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452101
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-SA3A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12405 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

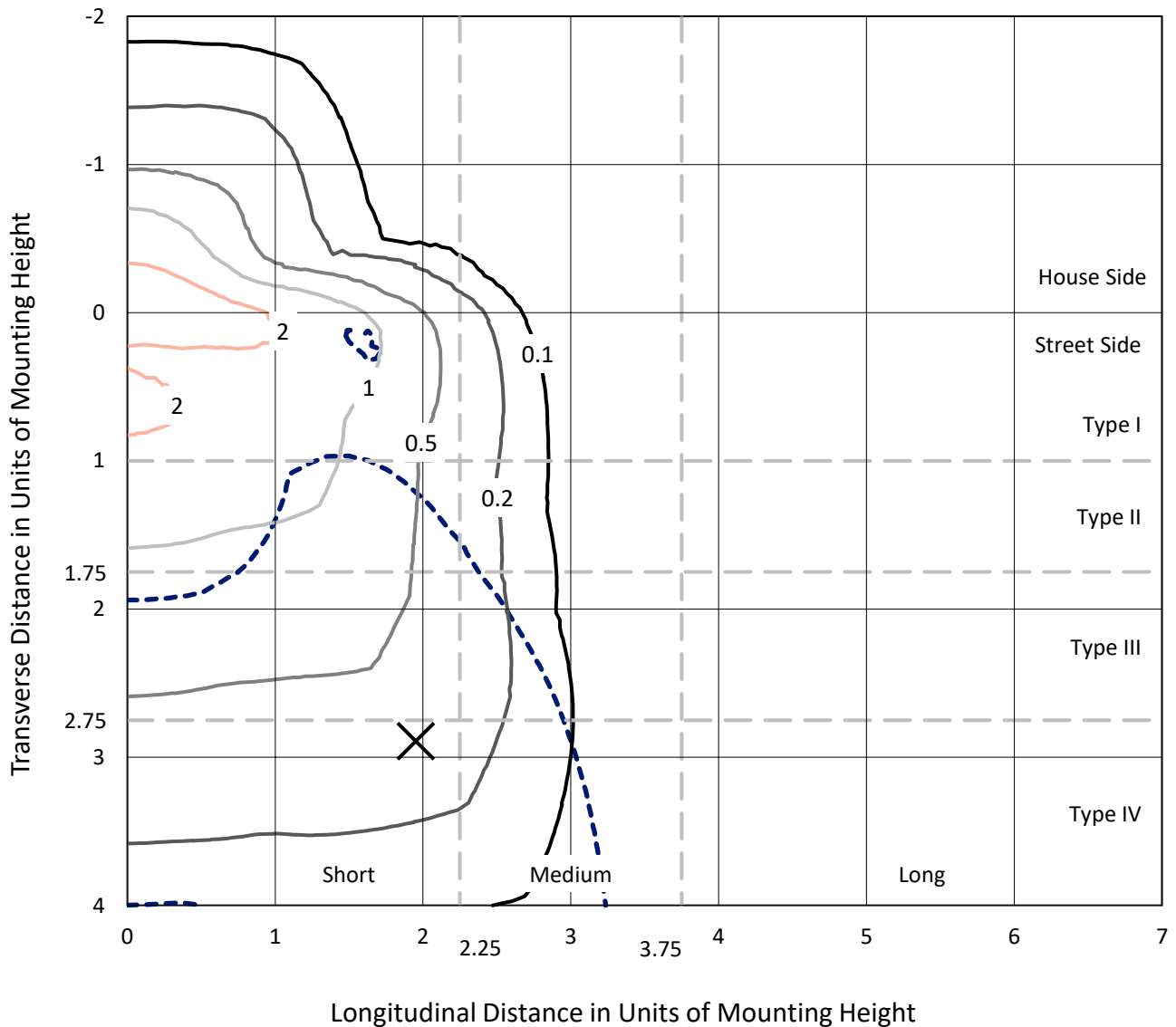
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

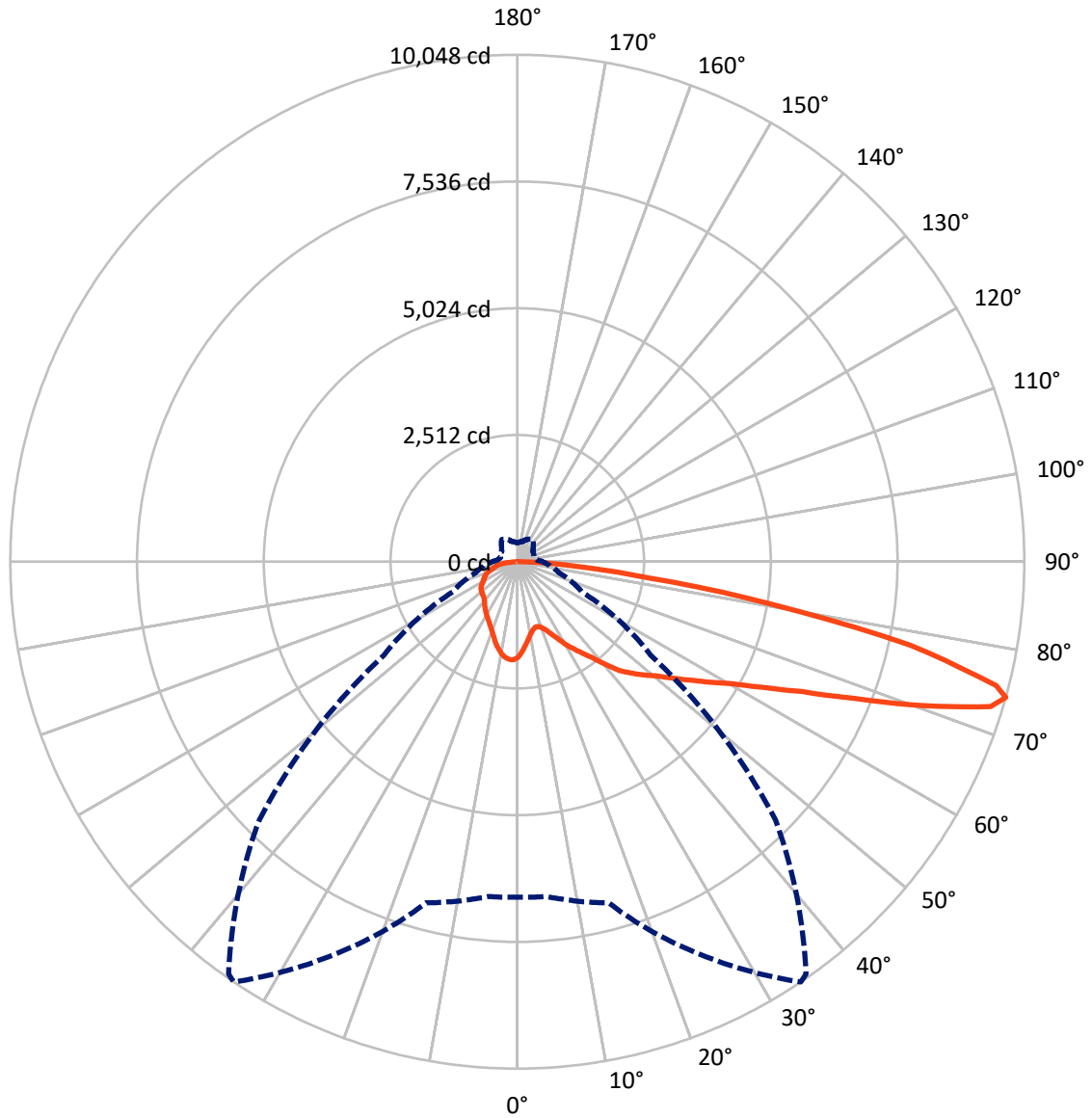
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	2639.9	0.0	2639.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9765.1	0.0	9765.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	12405.0	0.0	12405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.4
10°-20°	471.5	3.8
20°-30°	777.4	6.3
30°-40°	1164.5	9.4
40°-50°	1692.9	13.6
50°-60°	2364.5	19.1
60°-70°	2960.3	23.9
70°-80°	2447.9	19.7
80°-90°	353.7	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°	12405.0	100.0
0°-180°	12405.0	100.0

Coefficient of Utilization



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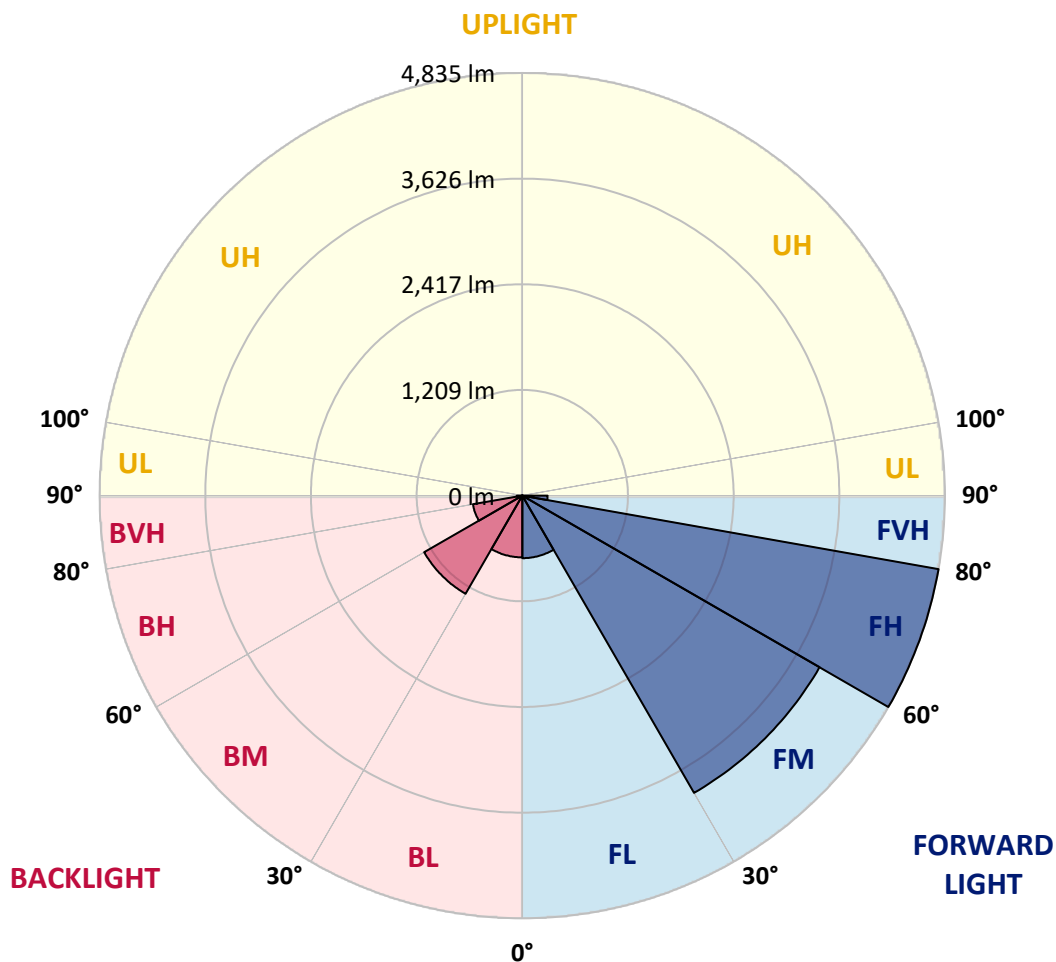
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.1	5.8			
FM	(30°-60°)	3925.5	31.6			
FH	(60°-80°)	4834.8	39.0			G2/5000
FVH	(80°-90°)	289.8	2.3			G3/500
BL	(0°-30°)	706.1	5.7	B2/1000		
BM	(30°-60°)	1296.4	10.5	B2/2500		
BH	(60°-80°)	573.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	63.9	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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1750.4	1759.3	1764.1	1781.3	1785.4	1790.9	1805.3	1824.6	1849.3	1871.3	1890.6
5°	1604.7	1618.4	1626.7	1641.8	1671.3	1674.1	1712.6	1756.6	1806.7	1853.5	1891.9
7.5°	1466.5	1481.7	1488.5	1516.0	1555.2	1561.4	1617.7	1687.1	1771.0	1841.8	1900.9
10°	1362.8	1370.3	1385.5	1406.1	1452.8	1456.9	1530.5	1623.2	1731.8	1836.3	1916.0
12.5°	1306.4	1310.5	1314.0	1336.0	1382.0	1388.2	1465.2	1570.3	1700.9	1840.4	1940.7
15°	1314.7	1316.0	1300.9	1305.0	1342.2	1351.1	1427.4	1535.3	1681.6	1850.7	1977.8
17.5°	1384.1	1379.3	1342.2	1322.9	1349.0	1353.2	1419.8	1521.5	1672.7	1869.9	2016.3
20°	1493.3	1486.5	1422.6	1380.0	1395.1	1398.5	1444.6	1531.8	1681.6	1901.6	2076.1
22.5°	1629.4	1626.7	1529.8	1478.2	1477.5	1477.5	1501.6	1568.9	1708.4	1944.9	2138.7
25°	1819.8	1805.3	1678.9	1612.2	1593.7	1592.3	1589.6	1630.1	1742.8	1990.9	2212.9
27.5°	2015.0	1990.2	1877.5	1775.1	1735.2	1730.4	1712.6	1716.7	1786.8	2043.1	2297.4
30°	2190.2	2174.4	2068.6	1955.2	1907.7	1896.7	1847.3	1824.6	1860.3	2137.3	2432.1
32.5°	2324.2	2314.6	2232.1	2129.0	2058.9	2056.9	1984.7	1966.2	1975.1	2251.4	2586.0
35°	2432.8	2436.2	2394.3	2305.0	2224.6	2212.9	2164.8	2141.4	2115.3	2416.3	2779.8
37.5°	2581.2	2588.8	2586.0	2509.1	2410.8	2413.5	2402.5	2364.1	2294.7	2600.5	2994.9
40°	2744.8	2750.3	2749.6	2720.0	2668.5	2671.3	2667.1	2623.1	2519.4	2834.8	3234.1
42.5°	2970.9	2944.8	2876.7	2906.3	2936.5	2949.6	2977.8	2935.8	2793.6	3085.0	3458.8
45°	3223.8	3174.3	3020.4	3034.1	3146.1	3170.9	3326.2	3268.5	3091.1	3372.2	3723.4
47.5°	3383.2	3334.4	3204.5	3201.8	3350.2	3374.3	3649.2	3627.9	3361.9	3682.2	4046.4
50°	3525.5	3518.6	3372.2	3407.3	3552.3	3588.0	4001.0	3981.1	3632.0	4047.8	4398.3
52.5°	3736.5	3680.8	3564.0	3636.1	3827.9	3874.6	4350.1	4291.7	3880.1	4370.8	4739.8
55°	3831.3	3818.2	3811.4	3873.9	4137.1	4170.8	4689.6	4555.6	4091.8	4644.3	4999.6
57.5°	4084.9	4060.8	4128.9	4171.5	4501.3	4552.9	5044.2	4831.2	4277.3	4861.4	5126.0
60°	4413.4	4400.3	4462.9	4539.8	4908.2	4986.5	5448.3	5066.2	4426.4	4970.7	5056.6
62.5°	4904.1	4902.7	4891.0	5055.9	5484.8	5556.9	5912.2	5295.1	4449.8	4888.9	4697.9
65°	5607.8	5583.0	5481.3	5661.4	6202.2	6286.8	6395.3	5422.9	4308.9	4469.0	3955.7
67.5°	6343.8	6342.4	6260.0	6493.6	7232.4	7319.7	6999.4	5394.7	3917.9	3620.3	2809.4
70°	6954.1	6924.5	7029.6	7652.3	8548.4	8649.4	7527.9	5062.8	3120.7	2390.9	1669.3
72.5°	7100.4	7101.8	7320.3	8545.7	9812.2	9828.0	7718.2	4103.4	2088.5	1318.8	835.0
74°	6649.6	6661.3	7000.1	8590.3	10047.9	9976.5	7231.7	3225.2	1412.3	861.1	602.0
75°	6069.6	5996.1	6486.1	8292.8	9803.3	9726.3	6662.0	2588.1	1077.6	687.9	527.1
77.5°	3245.1	3320.0	4075.9	6188.5	7964.3	7875.6	4517.1	1241.1	582.1	479.0	379.3
80°	1155.2	1274.1	1790.9	3238.2	5106.1	5133.6	2155.8	569.0	409.6	353.2	268.0
82.5°	471.4	484.5	769.0	1437.0	2592.9	2617.6	880.3	338.1	292.8	243.3	160.1
85°	184.2	189.7	340.2	646.0	1106.4	1178.6	304.4	178.7	180.1	139.5	81.8
87.5°	61.9	70.1	139.5	215.1	375.9	368.4	88.7	52.9	64.6	60.5	25.4
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°	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0	1894.0
2.5°	1900.2	1913.2	1922.2	1931.8	1940.7	1943.5	1941.4	1947.6	1948.3	1949.0	1949.7
5°	1911.2	1929.0	1946.2	1955.8	1960.0	1956.5	1944.9	1938.7	1933.2	1929.0	1930.4
7.5°	1926.3	1951.7	1967.5	1971.7	1960.7	1944.9	1916.0	1893.3	1878.9	1869.3	1868.6
10°	1949.7	1974.4	1987.5	1975.8	1945.5	1907.1	1861.7	1819.1	1786.8	1777.2	1776.5
12.5°	1979.2	2007.4	2006.7	1972.3	1919.4	1850.7	1777.2	1727.7	1683.7	1661.7	1670.6
15°	2017.7	2039.0	2019.1	1957.2	1873.4	1779.2	1688.5	1621.2	1571.7	1548.3	1549.7
17.5°	2062.4	2080.9	2028.0	1930.4	1808.8	1687.8	1582.7	1518.8	1479.6	1462.4	1461.0
20°	2118.0	2123.5	2028.0	1883.7	1725.6	1581.3	1481.0	1436.3	1414.3	1405.4	1408.1
22.5°	2177.8	2166.8	2017.0	1817.7	1616.4	1470.0	1402.6	1382.7	1371.7	1370.3	1371.7
25°	2245.2	2214.2	1994.3	1728.4	1502.3	1373.8	1334.6	1338.0	1340.1	1340.1	1344.9
27.5°	2327.6	2265.8	1956.5	1615.7	1369.0	1284.4	1273.4	1297.5	1308.5	1310.5	1314.0
30°	2436.2	2322.1	1894.0	1474.8	1255.6	1204.0	1223.3	1255.6	1267.9	1275.5	1274.1
32.5°	2565.4	2384.0	1809.5	1333.9	1164.2	1147.7	1171.0	1204.0	1217.8	1221.9	1216.4
35°	2717.3	2454.1	1698.1	1202.0	1084.4	1094.1	1121.6	1131.9	1144.2	1144.2	1147.0
37.5°	2880.9	2510.4	1562.1	1081.0	1022.6	1057.6	1077.6	1068.0	1062.5	1055.6	1059.0
40°	3047.2	2552.4	1385.5	961.4	960.7	1019.8	1025.3	997.9	975.9	969.0	965.6
42.5°	3192.2	2578.5	1226.0	868.7	902.3	982.7	986.9	942.9	907.8	887.2	880.3
45°	3363.3	2608.7	1070.0	791.7	848.0	953.2	963.5	904.4	852.8	809.6	798.6
47.5°	3597.6	2677.4	947.0	731.9	808.9	934.6	949.1	872.8	804.7	748.4	739.5
50°	3862.2	2771.6	851.5	691.4	778.6	918.1	936.0	840.5	760.1	697.5	690.7
52.5°	4104.8	2822.4	769.0	654.9	749.1	887.9	918.8	817.1	716.1	646.7	640.5
55°	4237.4	2740.0	687.9	619.2	708.5	848.7	894.8	784.8	673.5	619.9	610.9
57.5°	4255.3	2569.5	614.4	580.7	665.9	800.6	850.1	745.6	646.0	601.3	593.8
60°	4117.2	2315.3	557.3	549.1	622.6	746.3	799.9	711.3	617.8	580.7	573.1
62.5°	3773.6	2039.0	517.5	520.2	578.6	689.3	762.8	678.3	591.0	558.0	551.2
65°	3182.5	1683.0	479.0	490.7	539.5	644.6	729.1	650.8	564.2	540.8	534.7
67.5°	2210.8	1215.0	447.4	459.8	502.4	599.3	690.0	621.3	534.0	521.6	512.0
70°	1224.0	747.7	410.3	424.7	463.9	548.4	646.0	576.6	490.0	484.5	470.8
72.5°	643.2	476.2	368.4	384.2	411.6	483.1	578.6	527.8	446.7	423.3	405.5
74°	502.4	390.3	340.2	356.7	375.2	444.6	538.8	492.7	415.8	388.3	374.5
75°	437.8	347.7	316.1	337.4	353.9	418.5	507.9	468.0	398.6	372.5	360.1
77.5°	309.3	260.5	258.4	283.8	292.8	367.0	457.7	426.1	355.3	327.8	316.1
80°	217.2	195.2	204.8	220.6	233.0	324.4	424.7	368.4	291.4	259.1	255.0
82.5°	141.6	127.8	146.4	160.8	164.9	239.2	342.9	279.7	212.4	172.5	160.1
85°	65.3	63.9	83.8	81.8	81.1	116.8	203.4	163.6	122.3	91.4	85.9
87.5°	16.5	15.8	20.6	17.2	20.6	17.9	18.6	4.8	0.7	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)