

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: P947746

Luminaire Tested: **GALN-SB3A-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13817 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): 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

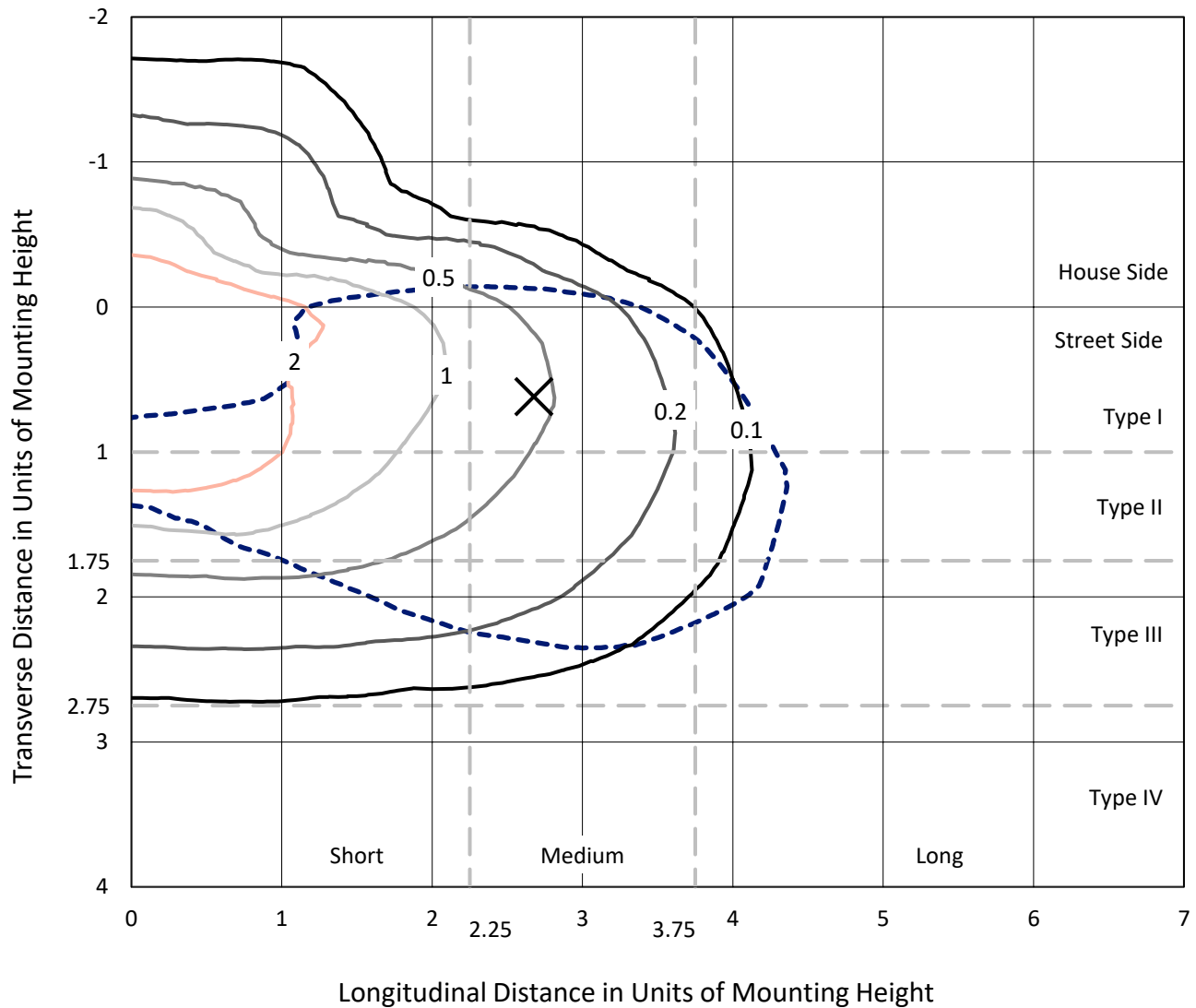


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

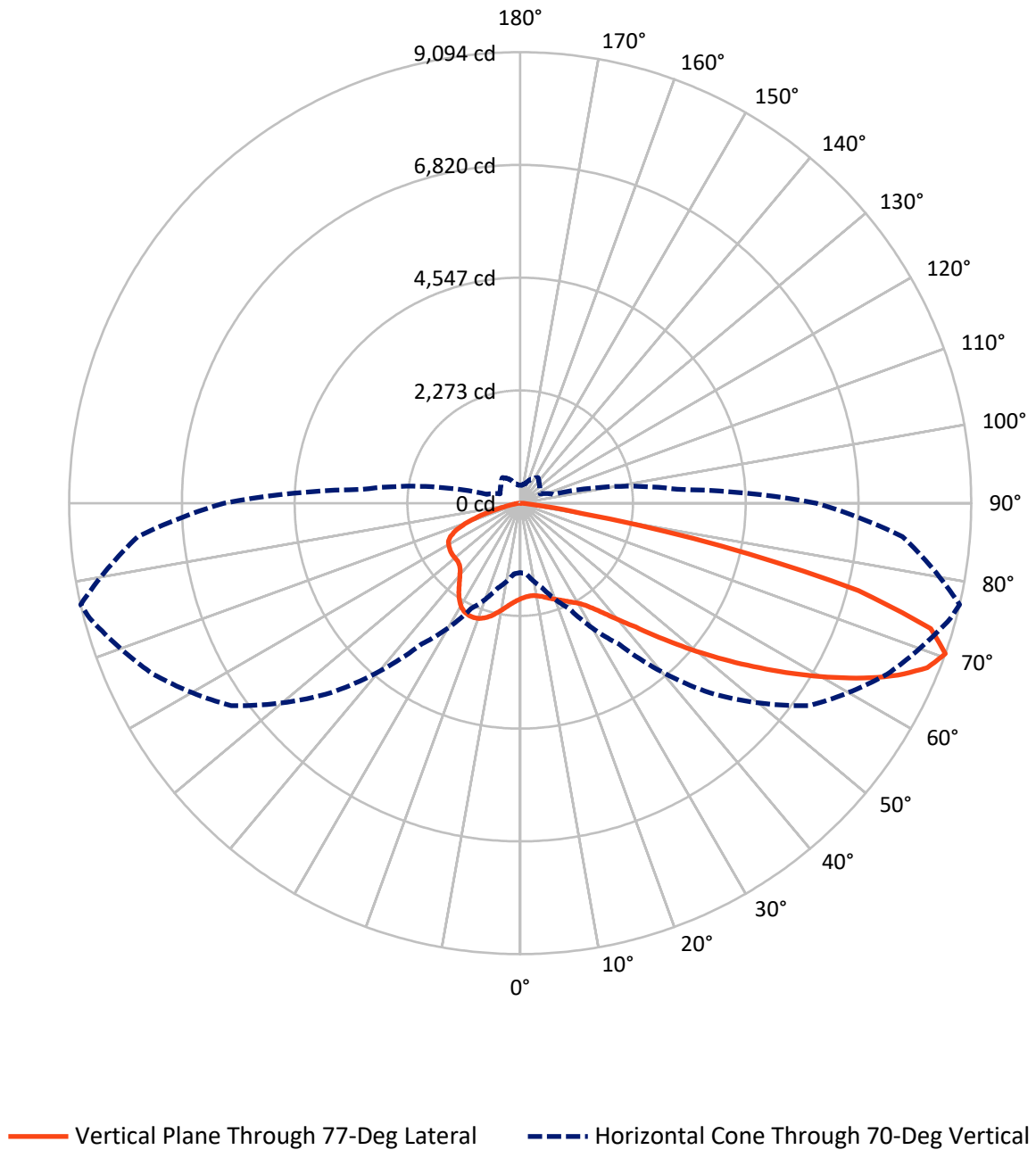


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3025.7	0.0	3025.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10791.3	0.0	10791.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	13817.0	0.0	13817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.3
10°-20°	530.6	3.8
20°-30°	907.4	6.6
30°-40°	1459.1	10.6
40°-50°	2278.1	16.5
50°-60°	3043.0	22.0
60°-70°	3243.4	23.5
70°-80°	1996.6	14.5
80°-90°	175.0	1.3
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°	13817.0	100.0
0°-180°	13817.0	100.0

Coefficient of Utilization



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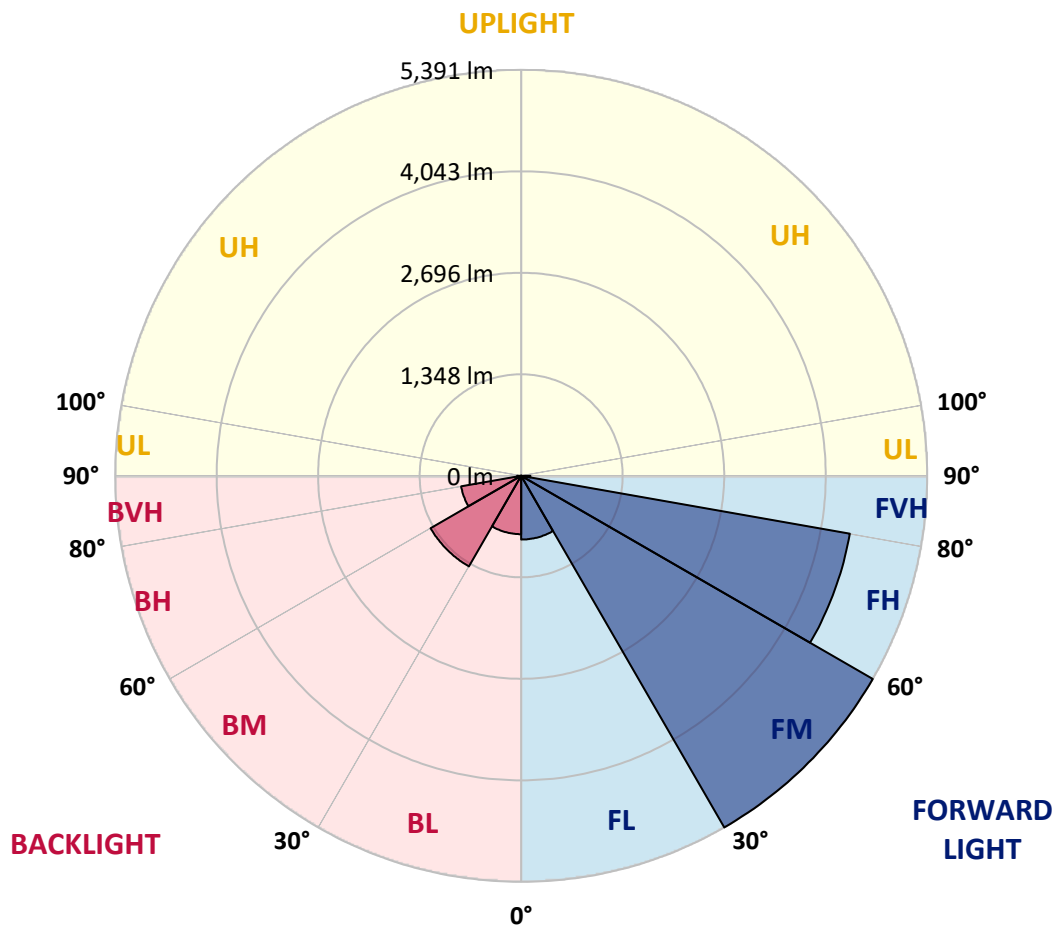
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.5	6.1			
FM	(30°-60°)	5391.1	39.0			
FH	(60°-80°)	4431.3	32.1			G2/5000
FVH	(80°-90°)	122.3	0.9			G2/225
BL	(0°-30°)	775.3	5.6	B2/1000		
BM	(30°-60°)	1389.2	10.1	B2/2500		
BH	(60°-80°)	808.6	5.9	B2/1000		G2/1000
BVH	(80°-90°)	52.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6
2.5°	1776.9	1776.2	1785.4	1788.2	1805.2	1817.2	1839.9	1863.9	1895.0	1898.6	1917.7
5°	1674.3	1674.3	1684.9	1696.2	1718.1	1742.2	1776.9	1818.6	1872.4	1880.9	1928.3
7.5°	1587.2	1592.9	1602.1	1624.0	1649.5	1684.2	1737.2	1796.7	1867.4	1880.9	1957.3
10°	1517.2	1523.5	1534.9	1552.6	1590.8	1638.9	1708.2	1784.7	1879.5	1900.7	1999.8
12.5°	1495.2	1501.6	1508.0	1521.4	1556.8	1613.4	1696.2	1790.3	1908.5	1929.7	2057.8
15°	1546.2	1554.0	1549.0	1545.5	1563.9	1615.5	1701.9	1810.8	1944.6	1975.0	2129.3
17.5°	1663.6	1666.5	1655.2	1621.9	1619.1	1646.7	1728.8	1839.1	1989.9	2023.1	2201.5
20°	1853.3	1848.3	1825.0	1759.2	1721.7	1716.0	1774.7	1881.6	2036.6	2072.0	2279.3
22.5°	2110.9	2105.2	2058.5	1954.5	1871.0	1815.8	1841.3	1936.8	2088.9	2128.6	2355.0
25°	2432.1	2424.4	2355.7	2214.2	2084.7	1948.1	1931.8	2009.7	2153.3	2190.1	2434.3
27.5°	2807.2	2800.8	2726.5	2539.7	2352.9	2129.3	2044.4	2095.3	2220.6	2262.3	2523.4
30°	3210.5	3228.9	3097.3	2896.3	2660.0	2365.6	2195.8	2200.7	2307.6	2345.1	2631.7
32.5°	3684.7	3716.5	3558.0	3303.2	2980.6	2622.5	2386.9	2347.9	2434.3	2465.4	2768.3
35°	4154.5	4190.6	4059.0	3777.4	3405.8	2925.4	2586.4	2517.1	2602.7	2636.6	2949.4
37.5°	4560.7	4608.8	4540.9	4296.1	3860.9	3290.5	2846.8	2715.9	2810.0	2852.5	3192.8
40°	4881.3	4954.9	4949.9	4797.1	4397.2	3733.5	3177.3	2961.5	3067.6	3113.6	3487.9
42.5°	5141.7	5205.4	5260.6	5252.8	4957.0	4236.6	3565.8	3280.6	3361.3	3414.3	3819.8
45°	5321.4	5389.3	5508.2	5636.3	5495.5	4775.1	4010.9	3659.2	3732.8	3812.7	4215.4
47.5°	5482.0	5559.2	5713.4	5916.5	5952.6	5315.8	4498.4	4100.0	4167.3	4250.1	4612.4
50°	5496.2	5562.7	5801.9	6089.9	6277.4	5835.2	5022.1	4594.7	4657.7	4746.1	5037.7
52.5°	5154.4	5259.1	5676.6	6085.0	6426.7	6269.6	5542.2	5109.1	5179.9	5286.0	5477.8
55°	4001.0	4154.5	5309.4	5895.3	6373.7	6550.6	6036.8	5656.1	5746.7	5857.8	5920.8
57.5°	3446.2	3513.4	4214.7	5550.0	6131.7	6623.5	6454.3	6208.8	6354.6	6476.3	6389.2
60°	3097.3	3153.2	3567.9	5012.9	5813.2	6508.1	6777.0	6723.9	6975.9	7120.9	6868.3
62.5°	2723.7	2776.8	3153.9	4185.7	5405.6	6316.3	6980.8	7199.5	7612.7	7771.2	7319.8
65°	2352.9	2398.2	2759.8	3516.9	4887.6	6124.6	7086.3	7610.6	8202.2	8366.4	7694.8
67.5°	1939.6	1977.1	2318.9	2967.1	4257.8	5862.0	7138.6	7934.0	8715.2	8856.1	7880.2
70°	1399.7	1428.7	1781.8	2346.5	3467.4	5410.6	7117.4	8163.3	8981.3	9093.8	7740.1
72.5°	661.6	687.8	1102.5	1523.5	2449.1	4531.7	6687.9	7981.4	8711.0	8655.1	6882.5
75°	353.1	375.8	633.3	835.7	1293.6	3106.5	5472.8	6875.4	7314.8	7043.1	5086.5
77.5°	239.2	256.9	392.0	501.7	590.9	1474.7	3517.7	4760.3	4579.8	4131.2	2547.5
80°	189.6	208.0	321.3	339.7	285.9	532.8	1453.5	2203.6	1583.0	1266.0	724.6
82.5°	145.8	166.3	270.3	246.3	155.7	218.7	423.2	697.0	405.5	308.5	175.5
85°	89.2	111.1	212.3	157.1	87.7	99.8	143.6	193.9	123.8	103.3	63.0
87.5°	45.3	63.7	107.6	57.3	39.6	23.4	38.2	38.2	32.6	28.3	16.3
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°	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6
2.5°	1934.7	1948.8	1972.9	1995.5	2013.2	2030.2	2047.2	2056.4	2059.2	2070.5	2076.9
5°	1957.3	1983.5	2030.2	2074.1	2101.7	2118.7	2130.7	2137.8	2139.2	2142.7	2148.4
7.5°	1999.1	2040.8	2105.9	2149.8	2170.3	2168.9	2163.9	2146.3	2139.2	2132.8	2134.2
10°	2057.8	2113.0	2193.0	2223.4	2210.7	2176.7	2132.8	2081.2	2057.1	2033.7	2026.7
12.5°	2130.7	2200.7	2279.3	2277.9	2214.9	2127.9	2026.0	1946.7	1896.5	1860.4	1851.9
15°	2219.1	2299.8	2360.0	2311.8	2173.9	2017.5	1868.2	1764.8	1719.6	1679.9	1675.7
17.5°	2310.4	2396.8	2424.4	2301.2	2070.5	1854.0	1684.9	1603.5	1558.9	1537.7	1544.1
20°	2399.6	2485.2	2462.6	2240.4	1913.4	1668.6	1517.9	1473.3	1464.1	1469.1	1466.9
22.5°	2493.7	2570.1	2470.4	2122.9	1713.2	1479.0	1396.2	1397.6	1418.1	1433.0	1436.5
25°	2589.9	2641.6	2449.8	1953.1	1498.1	1339.6	1319.0	1341.7	1382.0	1411.0	1418.8
27.5°	2682.6	2705.3	2405.3	1742.9	1313.4	1239.8	1243.3	1290.0	1350.9	1391.2	1401.1
30°	2787.4	2761.9	2319.6	1506.6	1185.3	1154.2	1183.9	1238.4	1299.2	1335.3	1343.8
32.5°	2905.5	2810.7	2183.8	1287.9	1094.7	1085.5	1134.3	1169.7	1196.6	1207.2	1212.9
35°	3052.7	2879.4	2009.7	1134.3	1013.3	1035.3	1082.0	1064.3	1053.7	1048.0	1053.7
37.5°	3243.8	2972.1	1805.9	1034.6	947.5	999.2	1018.3	963.1	921.3	900.8	905.8
40°	3473.8	3107.9	1609.9	957.4	905.8	968.0	934.8	868.3	815.2	786.2	788.3
42.5°	3729.2	3250.2	1445.0	899.4	882.4	942.6	873.2	794.0	708.3	699.1	708.3
45°	3997.4	3396.6	1332.5	854.8	871.1	920.6	837.8	709.8	648.9	686.4	706.2
47.5°	4265.6	3531.1	1264.5	821.6	865.4	895.9	806.7	663.1	619.9	674.4	699.9
50°	4564.2	3651.4	1234.1	797.5	859.1	886.0	760.0	651.0	589.5	625.5	652.4
52.5°	4860.7	3744.8	1211.5	773.4	849.9	878.2	737.4	636.9	552.7	554.8	569.6
55°	5156.5	3805.7	1186.7	741.6	829.3	861.2	735.2	621.3	525.1	515.2	522.2
57.5°	5472.1	3840.3	1156.3	706.2	794.0	818.0	733.1	609.3	516.6	500.3	502.4
60°	5793.4	3891.3	1116.6	663.1	746.6	766.4	728.2	605.0	511.6	484.0	486.1
62.5°	6081.4	3909.0	1069.2	622.0	685.7	715.4	717.5	601.5	498.2	450.8	450.8
65°	6270.4	3832.6	986.4	575.3	619.9	663.1	697.0	589.5	474.1	426.7	426.7
67.5°	6262.6	3614.6	856.9	515.2	556.2	605.0	667.3	568.9	445.1	397.0	399.1
70°	5971.0	3184.4	692.8	445.1	486.1	542.8	629.1	538.5	410.4	364.4	368.7
72.5°	5121.2	2492.3	503.1	363.0	404.8	478.4	579.6	501.7	375.0	335.4	333.3
75°	3658.5	1577.3	341.1	278.8	314.9	405.5	518.0	458.5	342.5	336.8	317.7
77.5°	1868.9	753.6	225.7	203.8	219.4	319.9	435.2	409.7	347.4	278.1	247.7
80°	607.9	278.1	142.2	138.7	145.8	213.0	336.8	336.1	263.2	188.9	167.0
82.5°	193.9	119.6	92.7	89.2	85.6	133.7	234.9	266.1	177.6	119.6	118.9
85°	77.1	71.5	54.5	50.2	36.1	63.0	123.1	176.9	132.3	86.3	88.5
87.5°	28.3	28.3	14.9	10.6	7.8	21.2	33.3	53.1	75.7	44.6	43.9
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)