

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: P944888

Luminaire Tested: **GALN-SB1A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

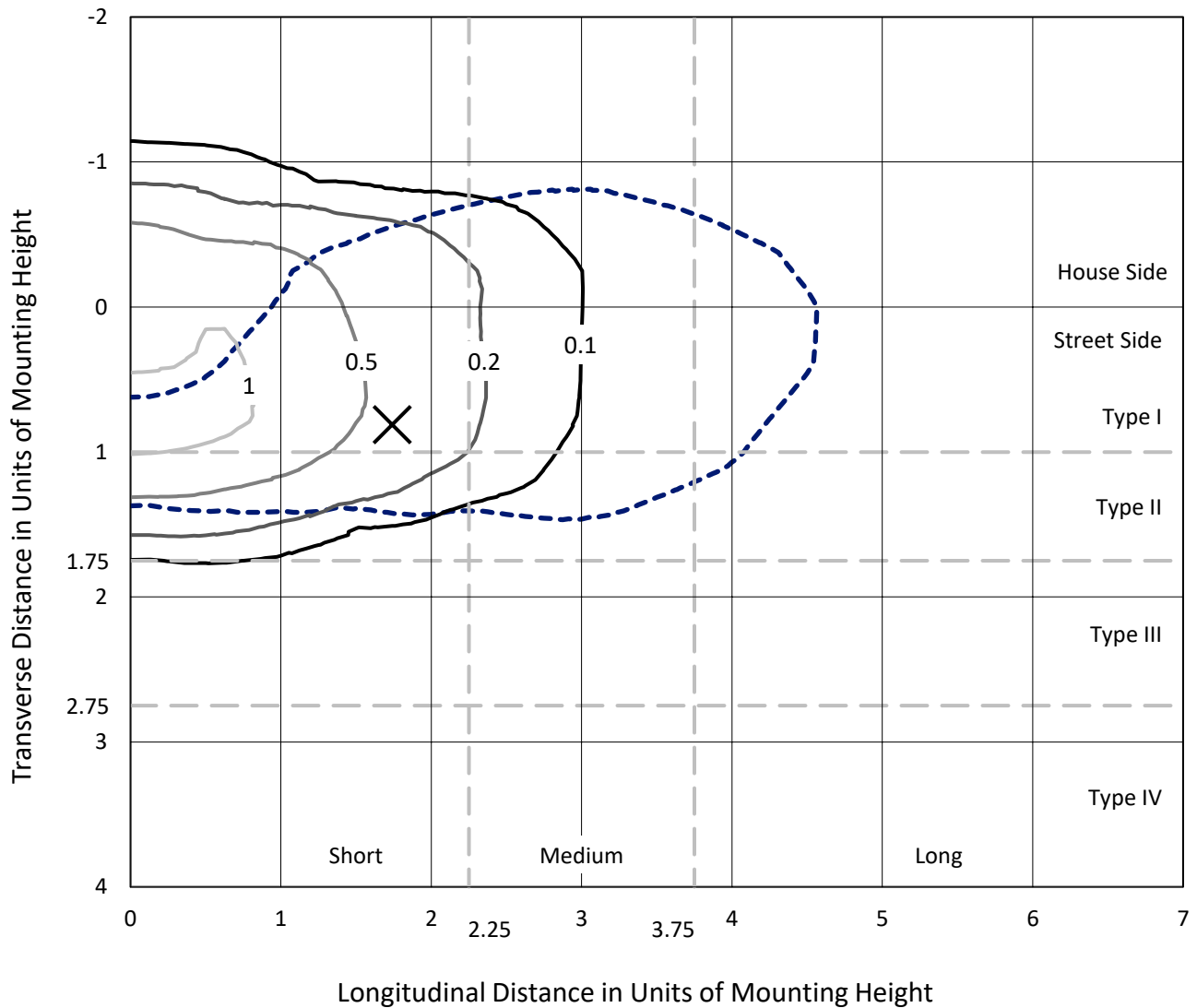
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

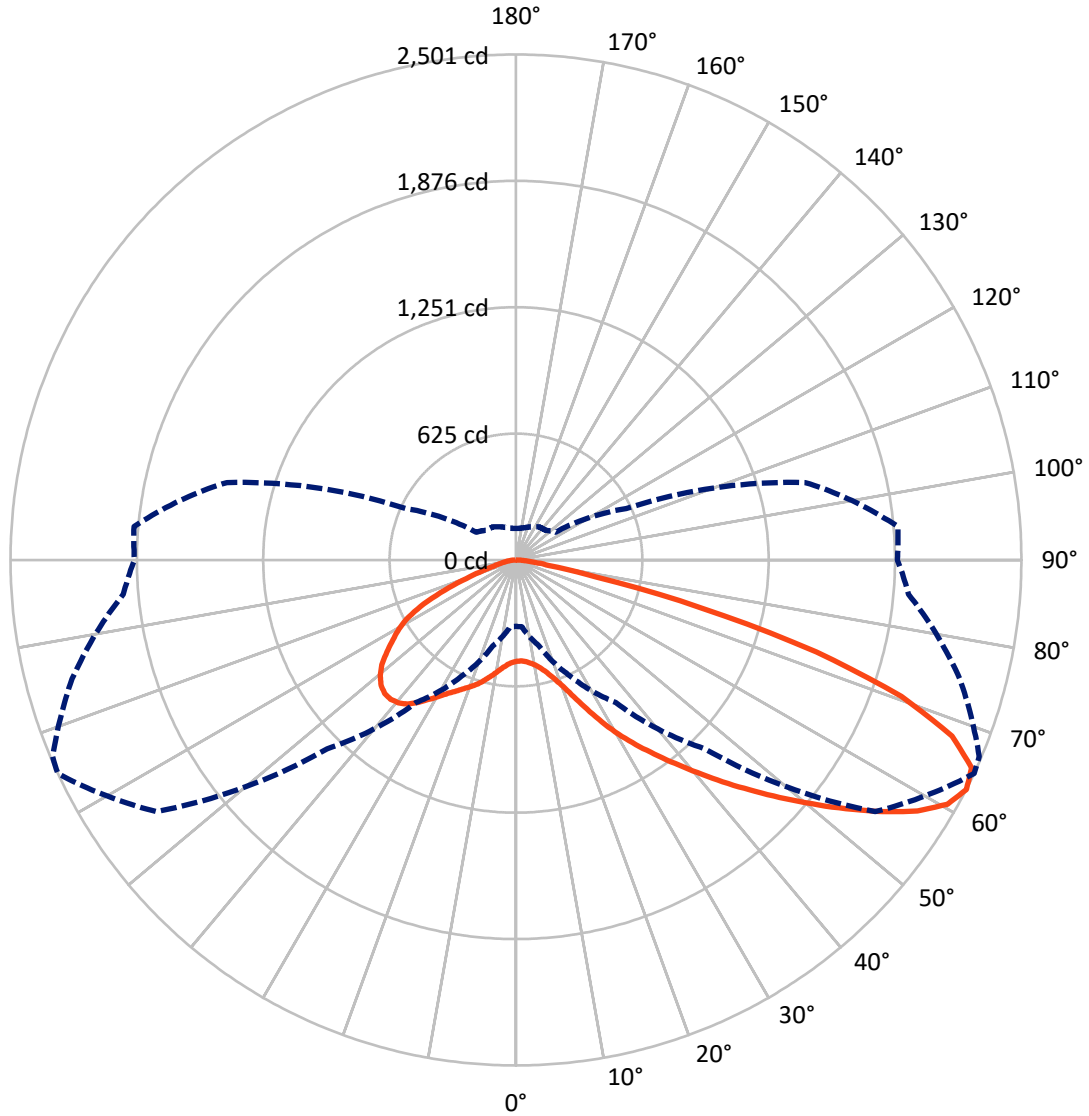
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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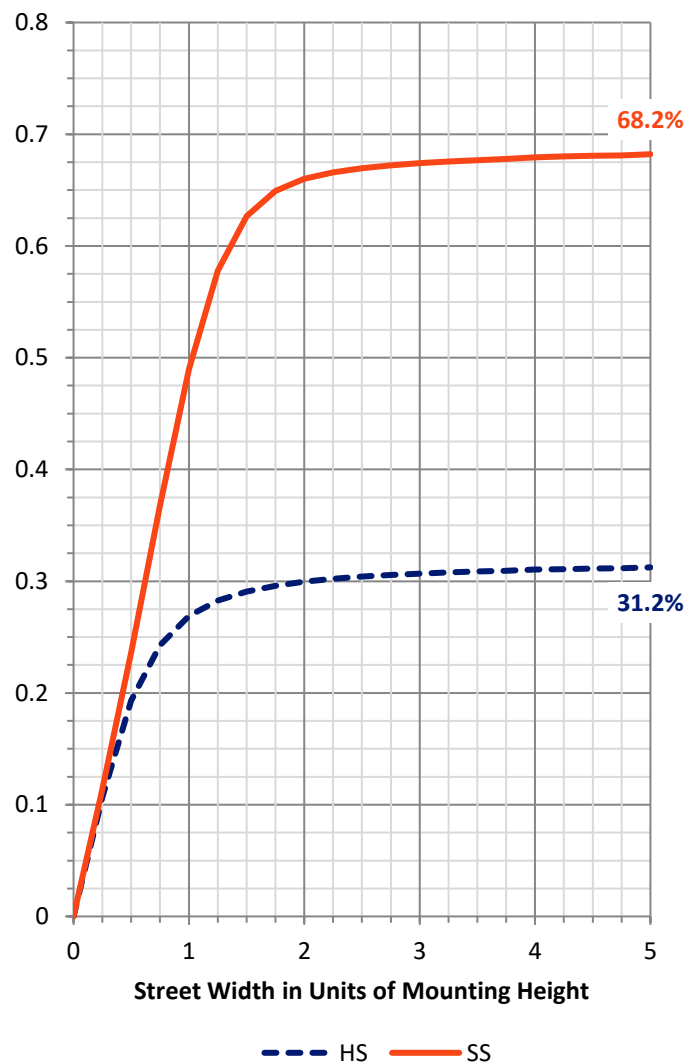
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.8	0.0	1434.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3112.2	0.0	3112.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	4547.0	0.0	4547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.1
10°-20°	169.4	3.7
20°-30°	343.5	7.6
30°-40°	594.4	13.1
40°-50°	899.5	19.8
50°-60°	1054.6	23.2
60°-70°	884.2	19.4
70°-80°	488.1	10.7
80°-90°	63.4	1.4
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°	4547.0	100.0
0°-180°	4547.0	100.0

Coefficient of Utilization



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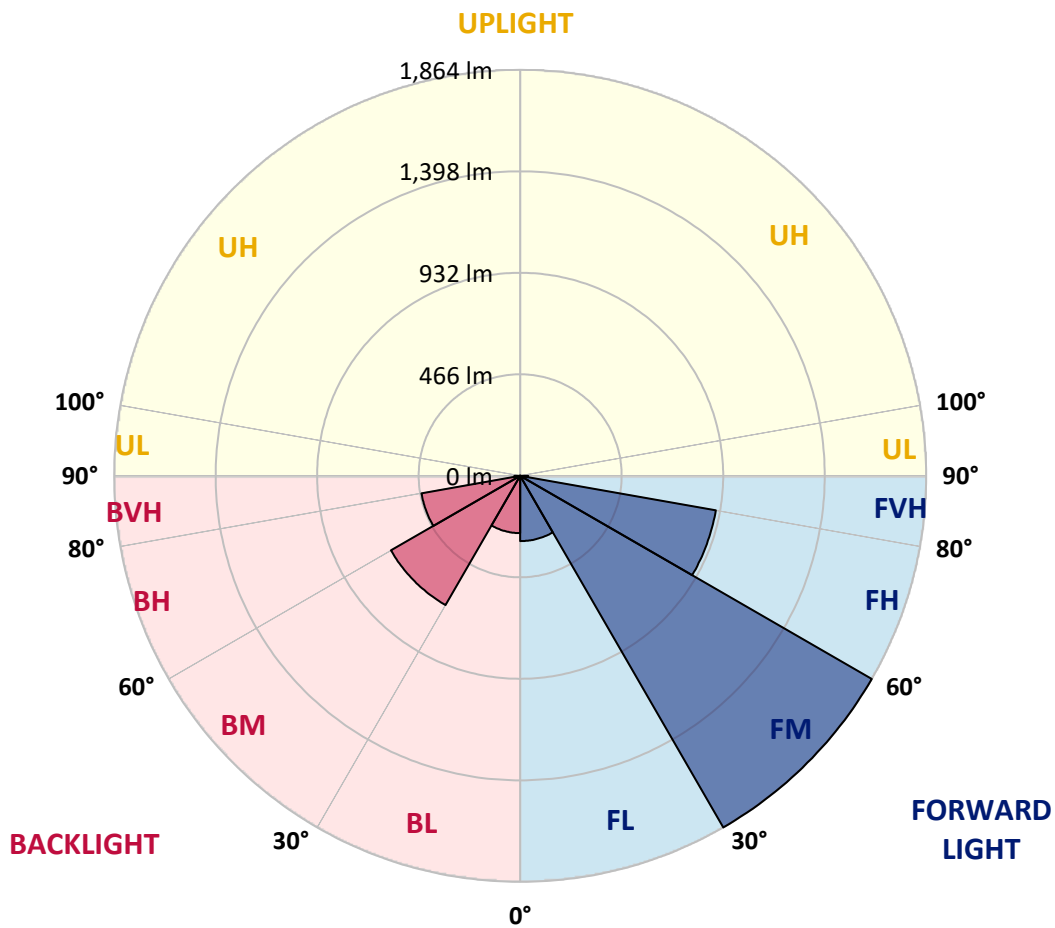
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.7	6.6			
FM (30°-60°)	1863.5	41.0			
FH (60°-80°)	912.0	20.1			G1/1800
FVH (80°-90°)	37.0	0.8			G1/100
BL (0°-30°)	263.1	5.8	B1/500		
BM (30°-60°)	685.0	15.1	B1/1000		
BH (60°-80°)	460.3	10.1	B1/500		G1/500
BVH (80°-90°)	26.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	497.8	496.3	497.5	497.5	498.0	497.8	499.4	499.9	500.6	502.0	502.0
5°	492.8	492.6	494.7	496.6	498.5	500.1	502.2	505.3	505.8	507.4	509.6
7.5°	491.2	489.7	493.0	495.4	499.9	503.9	509.6	514.7	516.9	517.6	521.6
10°	503.9	501.5	504.6	506.0	509.8	513.8	520.4	528.7	531.0	533.9	538.3
12.5°	525.6	523.0	527.5	529.6	533.1	536.7	541.2	549.2	550.4	555.6	559.8
15°	555.3	552.3	555.1	557.7	563.6	566.9	571.4	579.1	579.1	583.2	586.2
17.5°	595.7	591.6	593.8	594.7	598.5	603.4	611.0	617.8	621.4	620.0	615.7
20°	655.8	650.9	650.9	646.1	644.7	648.7	658.6	668.1	671.9	664.5	654.2
22.5°	746.2	739.1	735.1	719.0	712.7	713.1	723.0	734.6	737.7	724.7	701.3
25°	861.0	850.0	844.5	820.9	806.6	794.1	801.8	816.7	820.9	804.9	767.2
27.5°	975.9	976.6	971.5	943.1	919.3	896.4	892.4	908.0	912.5	894.3	847.6
30°	1137.1	1120.3	1110.4	1076.4	1042.5	1010.4	993.9	1000.2	1001.4	979.7	925.5
32.5°	1276.0	1271.8	1250.5	1220.8	1177.2	1126.9	1099.3	1089.2	1087.3	1056.4	992.0
35°	1434.3	1431.9	1409.5	1374.1	1327.0	1257.1	1207.4	1178.3	1176.0	1132.6	1057.8
37.5°	1595.2	1595.2	1573.2	1534.6	1485.7	1398.4	1322.7	1276.7	1269.2	1212.5	1124.8
40°	1723.5	1715.7	1719.7	1703.5	1647.6	1554.8	1450.8	1384.0	1373.9	1306.0	1196.0
42.5°	1796.4	1793.8	1817.9	1836.0	1813.2	1739.1	1591.9	1500.3	1486.2	1408.8	1278.1
45°	1812.7	1809.9	1852.8	1919.3	1951.4	1921.0	1745.2	1622.8	1605.6	1516.4	1366.1
47.5°	1775.2	1769.5	1832.5	1937.5	2040.3	2093.9	1911.3	1755.6	1730.6	1621.1	1456.5
50°	1662.4	1657.0	1752.3	1891.7	2070.3	2211.4	2091.5	1896.4	1858.2	1733.4	1547.8
52.5°	1417.3	1419.9	1569.2	1760.8	2030.9	2284.5	2246.7	2044.8	1998.8	1848.3	1633.4
55°	1104.0	1109.7	1293.2	1504.1	1873.3	2273.4	2352.7	2197.7	2151.9	1956.4	1721.9
57.5°	790.5	815.5	987.5	1196.3	1570.6	2097.7	2375.8	2343.0	2298.6	2074.3	1808.4
60°	512.4	516.9	693.8	904.2	1196.0	1785.3	2328.8	2453.2	2418.5	2194.6	1880.9
62.5°	328.4	331.4	439.3	632.5	860.8	1320.8	2170.8	2501.1	2490.4	2274.1	1950.5
65°	241.3	239.0	295.1	418.0	579.9	814.6	1863.9	2477.9	2498.9	2323.9	2008.0
67.5°	201.5	198.2	225.8	289.5	427.2	462.6	1379.1	2327.7	2404.6	2318.2	2050.2
70°	183.5	180.7	197.5	214.9	333.3	309.7	695.2	2023.6	2142.0	2253.8	2043.4
72.5°	155.5	150.5	173.4	190.8	259.3	237.6	287.3	1554.4	1698.7	2047.4	1947.2
75°	120.5	117.2	136.8	168.0	194.9	185.4	181.6	943.9	1101.4	1583.4	1703.5
77.5°	95.5	91.1	109.0	130.9	175.3	139.9	132.3	406.5	562.6	1010.8	1274.6
80°	72.0	67.9	82.8	103.6	134.7	105.4	85.6	165.8	212.1	512.1	641.0
82.5°	51.2	47.7	57.8	76.0	90.6	94.6	52.6	92.9	104.5	197.5	143.2
85°	32.8	30.7	38.7	47.7	57.6	60.9	32.1	48.6	53.3	81.4	59.7
87.5°	17.9	14.6	20.8	22.2	26.7	24.3	15.3	17.7	19.1	29.5	25.2
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°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	502.9	503.7	506.0	506.7	508.4	510.5	511.9	513.3	513.3	514.7	514.7
5°	509.8	511.4	516.4	519.0	523.2	527.5	530.1	533.1	535.0	536.0	536.4
7.5°	523.0	525.6	532.7	537.2	544.5	550.4	554.4	558.6	559.6	562.2	561.2
10°	540.9	544.0	552.0	560.5	569.2	576.5	580.3	583.4	584.6	585.0	583.9
12.5°	561.5	565.9	576.3	586.7	595.9	602.3	603.2	602.5	599.2	596.4	596.4
15°	586.7	590.7	602.3	613.6	622.6	623.7	617.8	614.1	610.0	609.3	609.3
17.5°	616.9	619.0	629.6	640.7	641.4	637.4	628.7	625.1	621.4	618.8	619.0
20°	652.0	651.3	658.9	663.6	658.6	646.4	633.2	627.3	623.5	620.4	620.7
22.5°	694.0	688.6	687.7	686.5	673.3	647.6	629.6	622.1	616.2	611.9	613.3
25°	755.1	734.4	720.0	712.0	682.2	641.2	618.3	601.6	590.5	583.2	586.0
27.5°	831.6	796.6	760.3	740.7	682.2	628.2	590.9	563.8	545.6	538.1	541.9
30°	904.5	867.9	814.3	775.4	680.6	607.0	546.8	509.1	487.8	480.3	484.8
32.5°	966.7	926.9	871.7	813.4	676.6	572.5	492.1	450.3	429.8	420.9	425.3
35°	1024.5	982.1	929.2	855.2	666.0	522.1	431.9	400.1	377.2	362.8	367.5
37.5°	1083.7	1033.3	983.7	892.9	646.8	463.1	385.7	358.6	331.7	312.3	317.5
40°	1148.1	1087.8	1042.0	915.3	615.5	406.9	349.8	325.1	296.5	276.0	280.0
42.5°	1223.4	1153.1	1106.9	926.9	572.5	367.1	326.5	302.2	275.3	258.6	261.9
45°	1302.0	1225.0	1166.1	926.6	524.7	348.4	318.9	294.9	265.2	247.7	250.5
47.5°	1384.3	1300.3	1217.3	911.5	483.1	351.0	314.7	279.1	246.3	229.3	231.7
50°	1466.8	1382.6	1266.8	883.2	465.4	345.4	298.9	256.9	218.2	202.9	203.8
52.5°	1548.7	1470.2	1309.5	842.9	447.5	324.4	278.6	228.1	206.7	196.0	196.0
55°	1631.0	1556.7	1356.0	784.1	402.7	299.8	244.6	217.3	197.5	187.8	186.8
57.5°	1713.6	1656.8	1400.1	725.4	346.3	269.6	226.0	204.1	188.3	180.0	178.6
60°	1799.5	1771.2	1445.6	671.4	290.6	230.9	212.3	193.4	177.4	168.2	167.5
62.5°	1887.9	1897.1	1481.2	601.8	239.4	207.4	200.0	180.7	165.1	156.4	156.2
65°	1977.1	2018.6	1504.6	505.3	194.1	184.9	186.8	166.8	151.0	143.4	143.2
67.5°	2044.3	2106.1	1498.0	382.4	159.2	163.7	170.3	152.2	137.3	131.4	131.6
70°	2051.9	2095.8	1432.9	261.9	133.3	143.0	151.9	137.8	122.4	118.2	118.4
72.5°	1951.4	1954.2	1251.5	171.0	112.8	125.5	132.6	123.1	108.3	104.0	103.8
75°	1687.9	1616.2	918.8	112.8	94.4	107.8	114.4	107.8	93.4	94.4	91.1
77.5°	1278.8	1144.6	557.9	80.2	78.8	90.6	99.6	94.8	82.6	92.7	81.6
80°	658.9	619.2	248.9	59.9	62.3	72.4	81.9	75.7	65.3	62.3	56.9
82.5°	151.0	175.5	98.1	42.9	45.1	52.1	62.5	56.9	46.9	39.6	39.2
85°	52.8	57.8	43.4	26.9	26.4	32.6	42.5	38.0	31.8	25.5	26.9
87.5°	16.7	21.9	16.3	10.9	11.3	14.6	19.6	17.9	14.9	9.7	10.1
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)