

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: P940776

Luminaire Tested: **GALN-SB4A-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14100 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 114
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

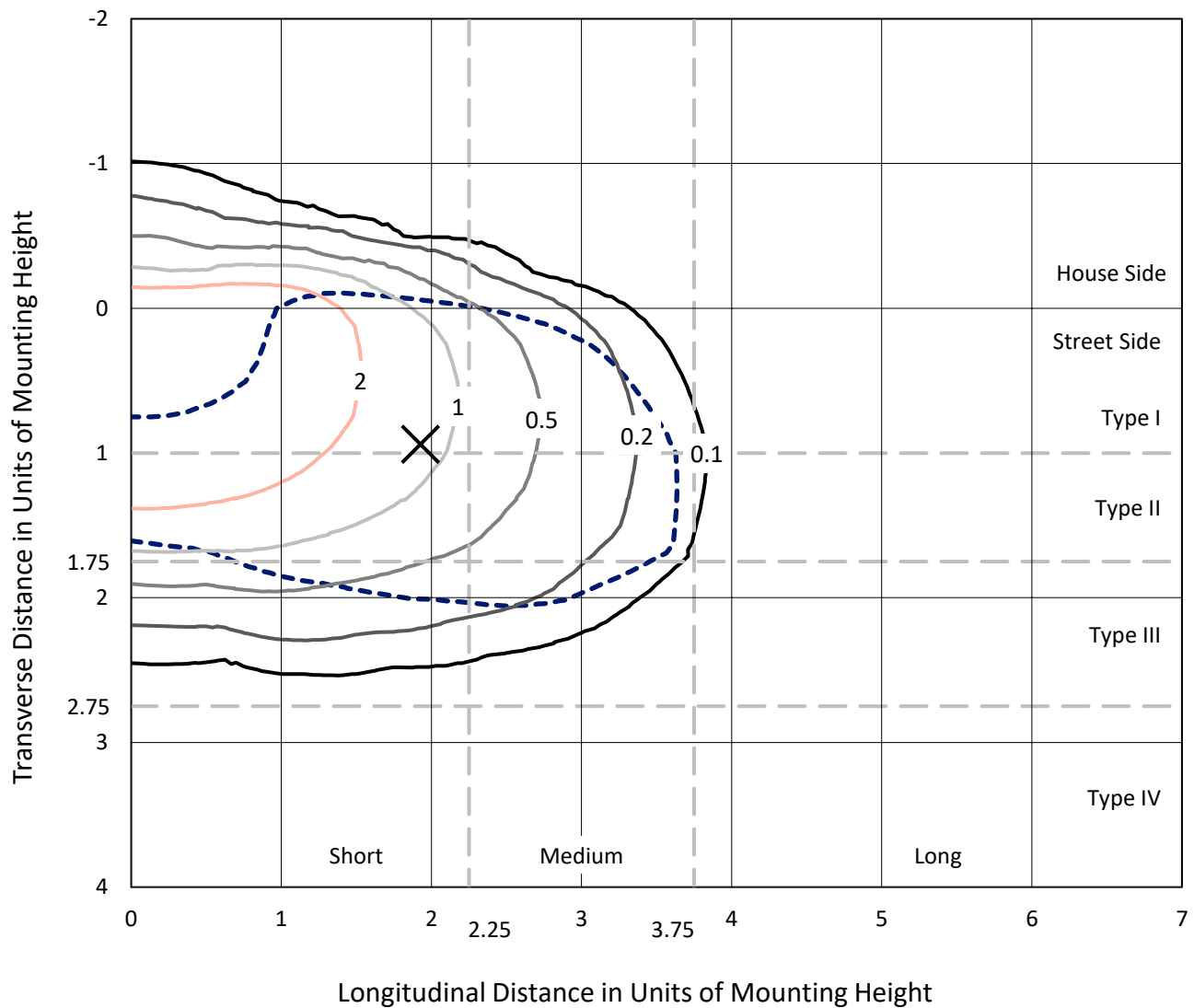


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

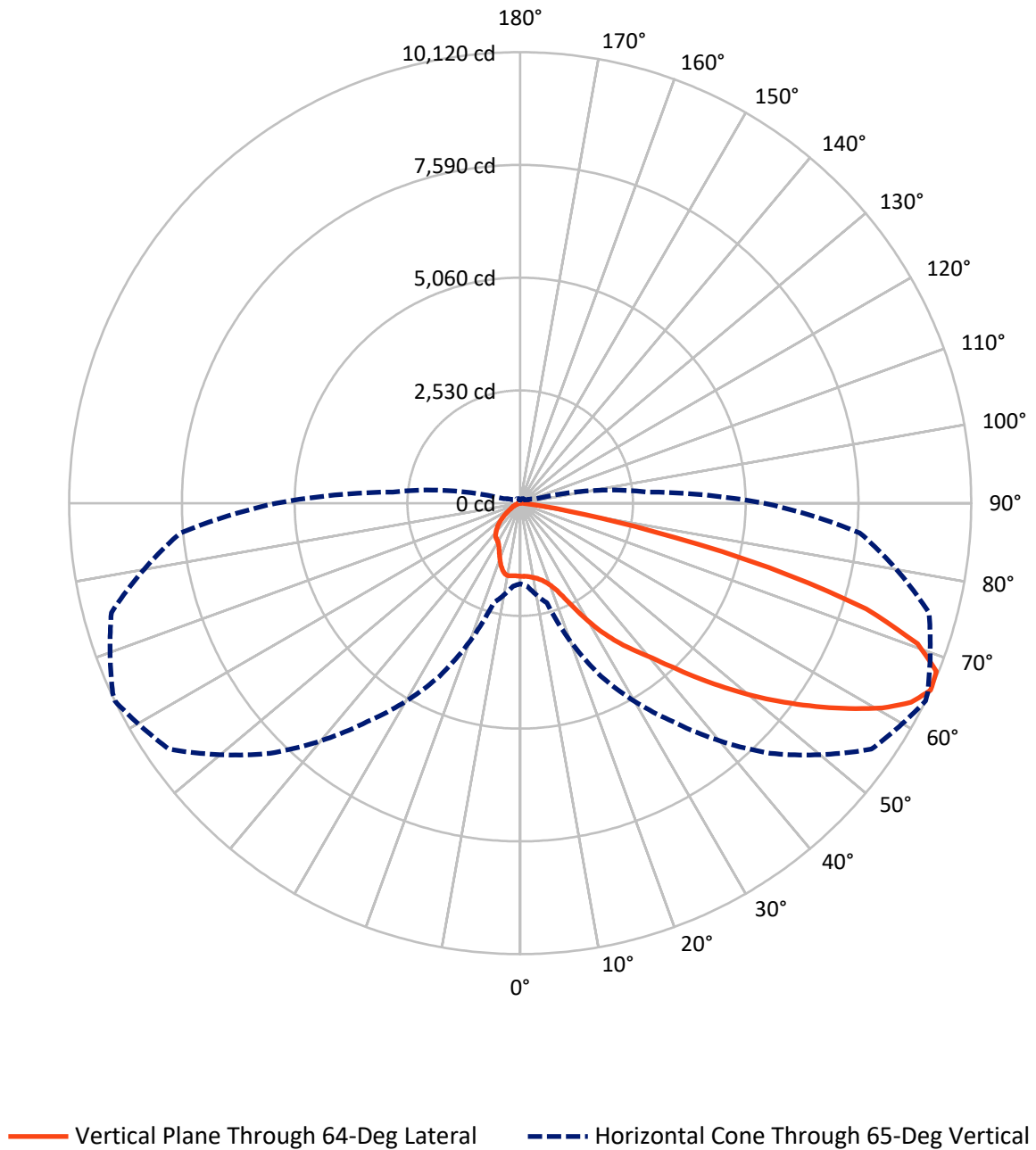


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.6	0.0	1885.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12214.4	0.0	12214.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	14100.0	0.0	14100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.1
10°-20°	410.4	2.9
20°-30°	777.6	5.5
30°-40°	1573.6	11.2
40°-50°	2680.6	19.0
50°-60°	3645.4	25.9
60°-70°	3423.2	24.3
70°-80°	1371.5	9.7
80°-90°	66.4	0.5
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°	14100.0	100.0
0°-180°	14100.0	100.0

Coefficient of Utilization



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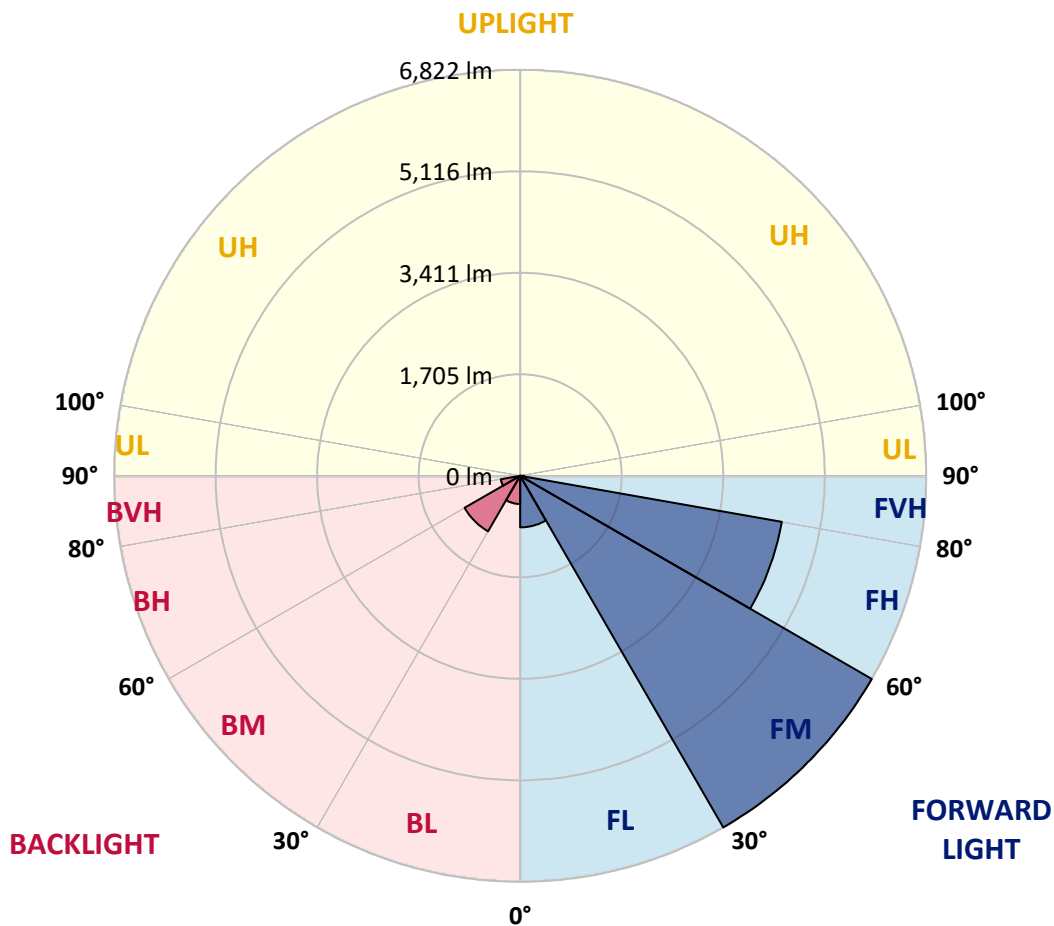
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.9	6.1			
FM	(30°-60°)	6821.6	48.4			
FH	(60°-80°)	4463.7	31.7			G2/5000
FVH	(80°-90°)	63.2	0.4			G1/100
BL	(0°-30°)	473.4	3.4	B1/500		
BM	(30°-60°)	1078.0	7.6	B2/2500		
BH	(60°-80°)	331.0	2.3	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1634.3	1645.6	1642.8	1640.0	1639.0	1640.9	1641.9	1640.9	1640.9	1640.9	1641.9
5°	1603.1	1612.6	1612.6	1619.2	1628.6	1640.0	1648.5	1650.4	1652.3	1655.1	1654.2
7.5°	1543.6	1551.1	1556.8	1578.5	1602.2	1632.4	1657.9	1671.2	1673.1	1683.5	1687.2
10°	1502.9	1512.4	1521.8	1544.5	1578.5	1623.9	1667.4	1699.5	1704.3	1728.8	1740.2
12.5°	1501.0	1510.5	1522.8	1547.3	1587.0	1635.3	1688.2	1734.5	1743.0	1778.9	1802.6
15°	1520.9	1532.2	1543.6	1573.8	1616.3	1674.9	1731.7	1789.3	1797.8	1848.9	1874.4
17.5°	1561.5	1576.6	1585.2	1615.4	1660.8	1726.0	1800.7	1866.8	1874.4	1933.9	1966.1
20°	1641.9	1659.8	1662.7	1687.2	1731.7	1801.6	1890.5	1972.7	1982.2	2050.2	2086.1
22.5°	1808.2	1833.7	1811.1	1823.4	1863.1	1933.0	2029.4	2133.4	2146.6	2224.1	2256.3
25°	2101.2	2137.2	2078.6	2057.8	2074.8	2147.6	2268.6	2399.9	2415.1	2477.5	2493.5
27.5°	2676.9	2630.6	2541.7	2454.8	2403.7	2445.3	2581.4	2744.0	2762.9	2823.4	2804.5
30°	3309.3	3268.6	3148.6	2955.7	2834.7	2828.1	2953.8	3135.3	3157.1	3214.7	3157.1
32.5°	3942.6	3903.8	3773.4	3536.1	3326.3	3222.3	3309.3	3510.6	3521.9	3558.8	3473.7
35°	4565.5	4525.8	4395.3	4152.4	3894.4	3658.0	3641.0	3867.9	3871.7	3910.4	3783.8
37.5°	5192.2	5159.1	5020.1	4781.9	4527.7	4201.6	4043.7	4206.3	4211.0	4248.8	4117.4
40°	5639.3	5653.4	5558.0	5373.6	5155.3	4798.9	4495.5	4566.4	4538.1	4601.4	4522.9
42.5°	6023.0	6051.4	5968.2	5875.6	5748.9	5435.1	5055.1	5042.8	4997.4	5031.5	4950.2
45°	6354.8	6378.4	6303.7	6282.0	6279.2	6058.9	5666.7	5592.9	5529.6	5523.0	5425.6
47.5°	6476.7	6522.1	6554.2	6627.0	6768.8	6676.2	6299.0	6184.6	6113.8	6061.8	5907.7
50°	6523.0	6571.2	6680.9	6892.6	7228.2	7267.9	6928.5	6800.0	6713.0	6618.5	6391.7
52.5°	6460.7	6546.7	6694.1	7050.5	7537.3	7742.4	7532.5	7420.1	7320.8	7166.7	6830.2
55°	6093.0	6179.0	6480.5	7048.6	7691.3	8075.1	8103.5	8053.4	7941.8	7698.9	7184.7
57.5°	5317.9	5445.5	5922.8	6808.5	7688.5	8361.5	8663.0	8699.0	8574.2	8226.3	7463.5
60°	4244.1	4417.1	4999.3	6276.3	7451.3	8516.5	9153.6	9333.2	9200.9	8746.2	7689.5
62.5°	2961.4	3161.8	3712.9	5442.6	6908.7	8405.0	9511.9	9843.6	9743.4	9211.3	7776.4
65°	1806.3	1870.6	2314.9	4282.8	5986.2	7938.1	9622.5	10119.6	10086.6	9495.8	7647.9
67.5°	1203.3	1257.2	1384.8	2936.8	4646.8	7005.1	9357.8	10071.4	10080.9	9449.5	7177.1
70°	725.0	771.3	854.5	1708.0	3011.5	5544.7	8538.3	9457.0	9511.9	8830.4	6284.8
72.5°	298.7	329.9	405.5	774.1	1559.6	3519.1	6799.0	8119.5	8247.1	7424.8	4823.5
75°	169.2	185.3	238.2	388.5	676.8	1640.0	4118.4	5764.0	5952.1	5117.5	2901.9
77.5°	112.5	120.0	154.1	251.4	380.9	559.6	1760.0	3003.0	3362.2	2795.0	1256.2
80°	75.6	82.2	105.9	168.3	247.7	240.1	560.5	1112.5	1368.7	960.4	306.3
82.5°	51.0	52.0	75.6	110.6	156.9	116.3	165.4	346.0	434.8	277.9	116.3
85°	29.3	28.4	55.8	64.3	69.9	48.2	50.1	104.0	136.1	117.2	66.2
87.5°	3.8	5.7	21.7	17.0	9.5	10.4	10.4	18.0	26.5	28.4	14.2
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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1641.9	1640.9	1638.1	1635.3	1628.6	1624.9	1626.7	1624.9	1623.9	1624.9	1628.6
5°	1654.2	1651.3	1643.8	1634.3	1621.1	1605.0	1594.6	1579.5	1565.3	1556.8	1558.7
7.5°	1687.2	1684.4	1674.0	1647.5	1605.0	1537.9	1476.5	1422.6	1381.9	1358.3	1359.2
10°	1740.2	1735.4	1719.4	1660.8	1549.2	1402.7	1280.8	1179.6	1113.5	1082.3	1079.5
12.5°	1802.6	1796.9	1768.5	1648.5	1443.4	1214.6	1046.4	933.9	872.4	845.0	842.2
15°	1876.3	1868.7	1813.0	1589.9	1289.3	1006.7	852.6	768.5	728.8	704.2	705.1
17.5°	1968.0	1954.7	1846.0	1502.0	1122.0	847.9	733.5	670.2	635.2	611.6	609.7
20°	2087.1	2065.3	1872.5	1397.1	967.9	747.7	653.2	600.2	573.8	553.0	549.2
22.5°	2253.4	2222.2	1904.6	1283.6	859.2	678.7	593.6	554.9	533.1	509.5	505.7
25°	2459.5	2422.6	1944.3	1178.7	784.5	619.1	550.1	518.0	492.5	465.1	462.2
27.5°	2747.8	2681.6	1991.6	1092.7	720.3	568.1	510.4	474.5	445.2	422.5	417.8
30°	3069.2	2960.5	2033.2	1040.7	661.7	520.8	458.4	422.5	395.1	379.0	376.2
32.5°	3373.5	3226.1	2060.6	1018.0	608.7	466.9	401.7	363.0	342.2	337.4	340.3
35°	3660.9	3466.2	2057.8	996.3	561.5	413.1	346.0	306.3	290.2	293.0	293.0
37.5°	3991.7	3722.3	2037.9	962.2	522.7	363.9	297.7	262.8	248.6	249.5	253.3
40°	4376.4	4018.2	2025.6	898.0	480.2	318.5	258.0	229.7	219.3	215.5	214.6
42.5°	4786.7	4304.6	2027.5	825.2	427.2	277.9	230.6	207.0	197.6	194.7	193.8
45°	5198.8	4577.8	2030.4	749.6	371.5	246.7	210.8	190.9	185.3	181.5	181.5
47.5°	5586.3	4810.3	1977.4	668.3	316.7	223.1	194.7	181.5	176.8	172.0	172.0
50°	5947.4	4965.3	1849.8	573.8	273.2	204.2	182.4	173.0	168.3	163.5	163.5
52.5°	6228.1	4989.9	1639.0	476.4	242.9	190.0	174.9	166.4	160.7	156.0	155.0
55°	6352.9	4835.8	1339.4	385.7	219.3	177.7	167.3	158.8	152.2	147.5	146.5
57.5°	6320.8	4511.6	1044.5	310.0	196.6	165.4	157.9	152.2	144.6	137.1	136.1
60°	6162.9	4077.7	787.4	258.0	175.8	152.2	147.5	142.7	132.3	121.0	119.1
62.5°	5889.7	3532.3	561.5	213.6	153.1	137.1	135.2	131.4	116.3	95.5	93.6
65°	5471.9	2869.7	378.1	177.7	131.4	120.0	121.0	114.4	94.5	70.9	69.0
67.5°	4861.3	2098.4	242.0	145.6	109.6	100.2	101.1	97.4	80.3	60.5	57.7
70°	4083.4	1389.5	157.9	110.6	87.9	77.5	83.2	84.1	68.1	49.2	47.3
72.5°	2993.5	820.5	110.6	82.2	64.3	53.9	68.1	69.9	54.8	36.9	35.0
75°	1706.1	389.4	83.2	59.5	39.7	37.8	52.9	52.9	37.8	24.6	22.7
77.5°	716.5	162.6	58.6	38.8	22.7	21.7	35.9	33.1	18.9	11.3	11.3
80°	207.0	72.8	31.2	18.9	9.5	8.5	14.2	10.4	4.7	1.9	1.9
82.5°	81.3	32.1	12.3	7.6	3.8	3.8	1.9	0.0	0.0	0.0	0.0
85°	48.2	13.2	5.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	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)