

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: P949173

Luminaire Tested: **GALN-SB4A-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14967 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

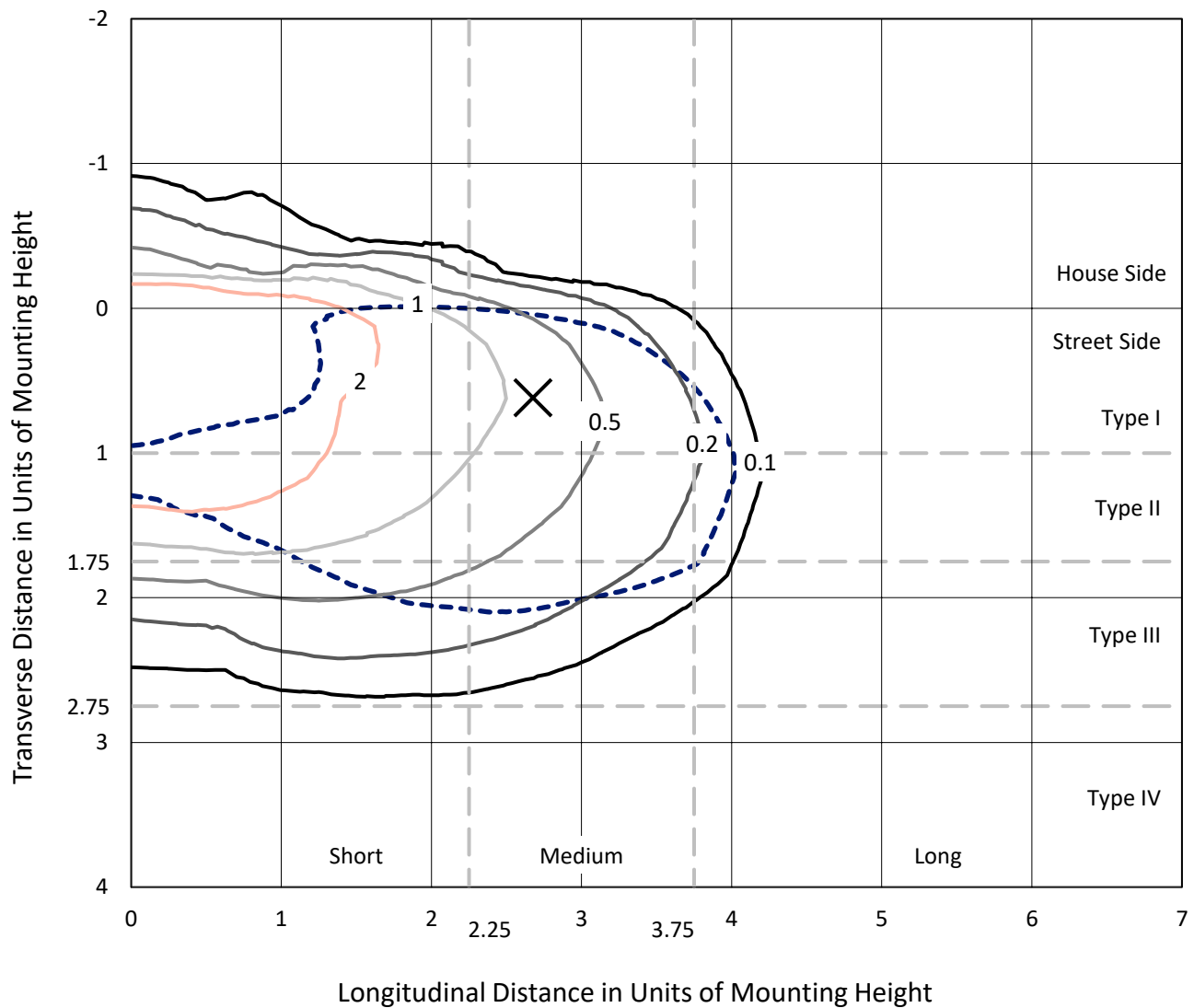


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Iso-Footcandle Lines of Horizontal Illumination

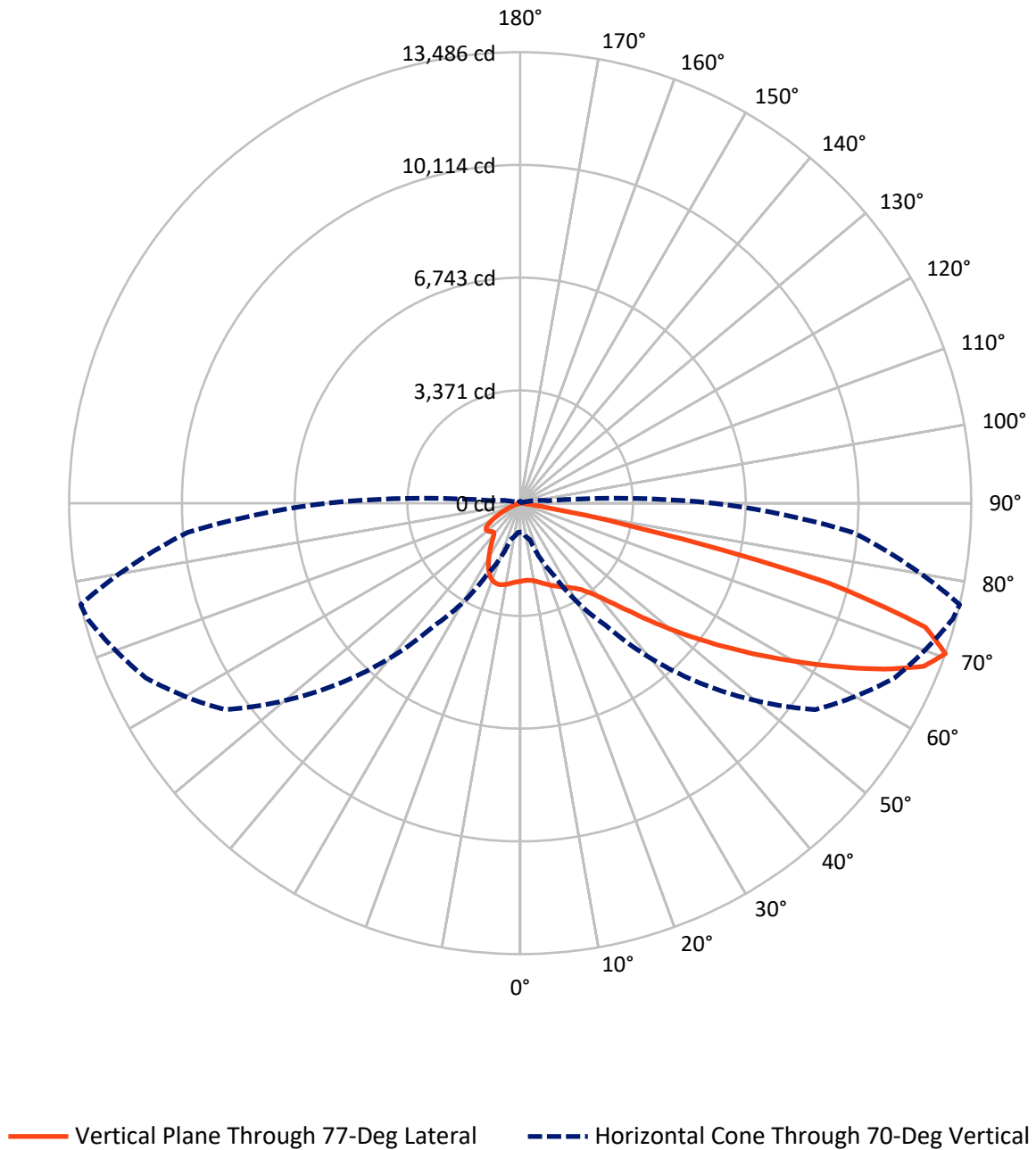
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1577.7	0.0	1577.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13389.3	0.0	13389.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	14967.0	0.0	14967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.3
10°-20°	477.6	3.2
20°-30°	738.8	4.9
30°-40°	1340.5	9.0
40°-50°	2530.4	16.9
50°-60°	3656.2	24.4
60°-70°	3892.0	26.0
70°-80°	2062.5	13.8
80°-90°	67.7	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°	14967.0	100.0
0°-180°	14967.0	100.0

Coefficient of Utilization



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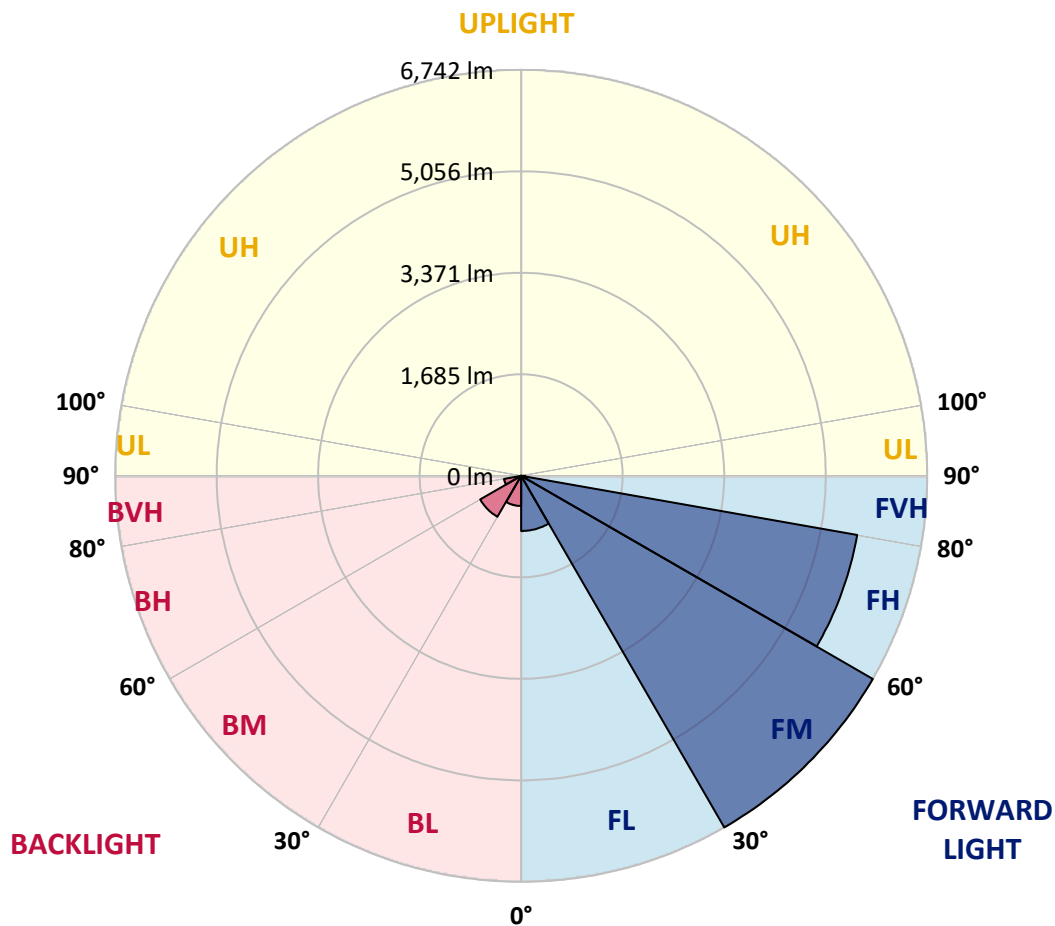
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.3	6.1			
FM	(30°-60°)	6741.8	45.0			
FH	(60°-80°)	5665.2	37.9			G3/7500
FVH	(80°-90°)	65.9	0.4			G1/100
BL	(0°-30°)	501.3	3.3	B2/1000		
BM	(30°-60°)	785.4	5.2	B1/1000		
BH	(60°-80°)	289.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6
2.5°	2191.9	2211.7	2208.9	2222.1	2226.8	2245.7	2264.6	2290.2	2318.5	2317.6	2336.5
5°	2068.0	2087.9	2092.6	2110.6	2133.3	2162.6	2201.3	2252.4	2305.3	2313.8	2351.6
7.5°	1921.5	1942.3	1954.6	1990.5	2032.1	2092.6	2155.9	2230.6	2318.5	2330.8	2403.6
10°	1775.0	1793.9	1810.0	1861.0	1927.2	2017.0	2120.0	2227.8	2345.9	2363.9	2466.9
12.5°	1684.3	1702.3	1720.2	1764.6	1846.9	1956.5	2096.4	2241.0	2391.3	2416.8	2552.9
15°	1652.2	1668.2	1682.4	1722.1	1798.7	1923.4	2091.7	2268.4	2448.9	2483.0	2656.9
17.5°	1656.9	1665.4	1674.8	1705.1	1779.8	1908.3	2100.2	2315.7	2517.0	2547.2	2760.9
20°	1684.3	1689.0	1690.0	1710.8	1776.9	1906.4	2117.2	2361.0	2581.3	2621.9	2863.9
22.5°	1719.3	1721.2	1719.3	1733.5	1794.9	1920.6	2139.9	2415.9	2653.1	2690.9	2967.8
25°	1882.8	1846.9	1801.5	1774.1	1825.1	1948.0	2173.9	2489.6	2731.6	2768.4	3069.0
27.5°	2390.3	2287.3	2124.8	1942.3	1887.5	1987.7	2221.2	2564.3	2810.9	2844.0	3177.7
30°	3214.5	3079.4	2803.4	2392.2	2087.9	2070.9	2282.6	2638.9	2895.1	2931.0	3293.9
32.5°	4040.6	4007.5	3689.0	3120.0	2538.7	2256.1	2384.7	2740.1	3006.6	3035.0	3450.8
35°	4876.2	4809.0	4548.2	3985.8	3233.4	2633.3	2554.8	2872.4	3153.1	3185.2	3679.6
37.5°	5516.0	5475.4	5313.8	4850.6	4057.6	3215.5	2845.9	3077.5	3365.8	3401.7	3972.6
40°	6081.3	6062.4	6007.5	5702.2	4979.2	3977.3	3298.7	3395.1	3660.7	3703.2	4331.7
42.5°	6525.5	6569.9	6601.1	6516.0	5929.1	4846.9	3907.4	3841.2	4071.8	4115.3	4789.2
45°	6980.1	6995.2	7120.9	7243.8	6872.4	5756.1	4593.5	4363.9	4583.2	4637.0	5337.4
47.5°	7272.2	7332.7	7553.8	7770.3	7665.4	6657.8	5330.8	4981.1	5175.8	5276.9	5951.8
50°	7293.9	7408.3	7712.6	8089.8	8242.9	7516.0	6132.3	5684.3	5891.3	6002.8	6607.7
52.5°	6931.9	7109.6	7581.2	8133.2	8554.8	8242.9	6961.2	6387.5	6653.1	6798.6	7288.2
55°	5314.7	5547.2	7086.9	7896.9	8567.1	8793.9	7768.4	7120.0	7501.9	7666.3	8023.6
57.5°	4630.4	4747.6	5571.8	7486.7	8339.3	9016.0	8498.1	7817.5	8425.3	8629.4	8718.3
60°	3852.5	4006.6	4672.9	6815.7	8030.2	9037.8	9142.7	8717.3	9426.2	9655.9	9355.3
62.5°	2618.1	2785.4	3448.0	5662.5	7607.7	9027.4	9671.0	9643.6	10538.7	10785.4	9895.0
65°	1621.9	1726.8	2163.5	4623.8	7017.0	9038.7	10224.0	10768.4	11712.6	11963.1	10312.8
67.5°	1281.7	1329.9	1557.6	3550.1	5999.0	8783.5	10775.9	11826.0	12817.5	13016.0	10440.4
70°	861.1	890.4	1133.3	2380.0	4463.1	7605.8	10765.5	12357.2	13386.5	13485.8	9975.4
72.5°	453.7	476.4	662.6	1102.1	2695.6	5406.4	9074.6	11722.1	12820.4	12671.0	8526.4
75°	226.8	264.6	446.1	559.5	1151.2	3015.1	5635.1	9241.9	10090.7	9512.2	5470.7
77.5°	172.0	207.9	368.6	368.6	400.8	1015.1	2386.6	5040.6	4649.3	3871.4	1605.9
80°	109.6	141.8	322.3	278.8	167.3	258.0	621.9	1412.1	987.7	751.4	292.1
82.5°	64.3	92.6	268.4	184.3	93.6	95.5	175.8	300.6	256.1	199.4	89.8
85°	25.5	60.5	184.3	72.8	36.9	23.6	52.9	64.3	52.9	39.7	22.7
87.5°	0.0	14.2	32.1	0.0	2.8	1.9	3.8	4.7	4.7	3.8	7.6
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°	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6	2334.6
2.5°	2345.0	2346.9	2352.5	2353.5	2340.3	2323.2	2316.6	2313.8	2302.4	2301.5	2303.4
5°	2373.3	2381.8	2373.3	2348.8	2290.2	2207.9	2145.5	2094.5	2048.2	2034.0	2025.5
7.5°	2430.0	2438.6	2413.0	2316.6	2169.2	2005.7	1858.2	1754.2	1660.7	1625.7	1611.5
10°	2511.3	2522.7	2442.3	2247.6	1986.8	1724.0	1474.5	1298.7	1161.6	1105.9	1082.2
12.5°	2613.4	2618.1	2458.4	2142.7	1749.5	1374.3	1020.8	832.7	710.8	665.4	651.2
15°	2725.9	2719.3	2460.3	2000.0	1426.3	971.6	666.3	547.3	498.1	483.0	483.0
17.5°	2844.0	2816.6	2422.5	1793.9	1071.8	664.5	494.3	466.0	457.5	453.7	452.7
20°	2960.3	2898.9	2353.5	1524.6	769.4	496.2	449.0	440.5	435.7	433.8	431.9
22.5°	3066.1	2961.2	2235.3	1211.7	558.6	438.6	424.4	416.8	408.3	404.5	403.6
25°	3169.2	2997.1	2069.0	919.7	447.1	410.2	398.9	384.7	373.3	368.6	366.7
27.5°	3269.4	3019.8	1861.0	680.5	398.9	383.7	362.9	343.1	334.6	332.7	330.8
30°	3376.2	3027.4	1624.8	507.6	369.6	350.7	320.4	297.7	293.0	293.9	293.9
32.5°	3506.6	3038.7	1386.6	415.9	345.0	311.0	275.0	251.4	247.6	251.4	250.5
35°	3662.6	3061.4	1156.9	382.8	323.2	270.3	231.6	211.7	207.9	210.8	209.8
37.5°	3874.3	3098.3	942.3	376.2	305.3	236.3	194.7	178.6	178.6	179.6	178.6
40°	4155.9	3196.6	750.5	371.5	295.8	210.8	164.5	157.8	160.7	162.6	162.6
42.5°	4499.0	3405.5	621.0	365.8	285.4	199.4	149.3	146.5	151.2	153.1	153.1
45°	4883.7	3670.1	575.6	356.3	276.0	207.0	142.7	138.9	144.6	145.6	146.5
47.5°	5281.6	3929.1	569.9	345.9	266.5	218.3	140.8	132.3	138.9	139.9	140.8
50°	5684.3	4098.3	575.6	329.9	251.4	218.3	141.8	125.7	131.4	134.2	135.2
52.5°	6089.8	4175.8	571.8	294.9	225.0	205.1	141.8	120.0	125.7	127.6	127.6
55°	6483.0	4160.7	514.2	242.9	190.9	181.5	138.0	115.3	119.1	120.0	120.0
57.5°	6793.9	3949.9	407.4	189.0	155.0	151.2	125.7	109.6	112.5	111.5	111.5
60°	6956.5	3486.7	291.1	145.6	121.9	119.1	110.6	102.1	104.0	99.2	98.3
62.5°	6958.4	2874.3	194.7	115.3	97.4	94.5	94.5	91.7	89.8	80.3	77.5
65°	6810.0	2194.7	129.5	91.7	78.4	73.7	79.4	78.4	71.8	58.6	56.7
67.5°	6473.5	1438.6	98.3	71.8	60.5	57.7	63.3	66.2	61.4	49.1	48.2
70°	5781.6	837.4	81.3	55.8	45.4	42.5	51.0	56.7	51.0	39.7	37.8
72.5°	4802.4	451.8	66.2	41.6	31.2	28.4	40.6	46.3	40.6	29.3	28.4
75°	3116.2	242.0	51.0	27.4	16.1	18.0	30.2	34.0	28.4	18.9	17.0
77.5°	1046.3	106.8	32.1	13.2	7.6	7.6	18.0	20.8	13.2	6.6	5.7
80°	233.5	44.4	13.2	5.7	2.8	2.8	3.8	3.8	1.9	0.0	0.0
82.5°	76.6	18.0	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.3	6.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	0.9	0.0	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)