

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: P950597

Luminaire Tested: **GALN-SB5A-730-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19185 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

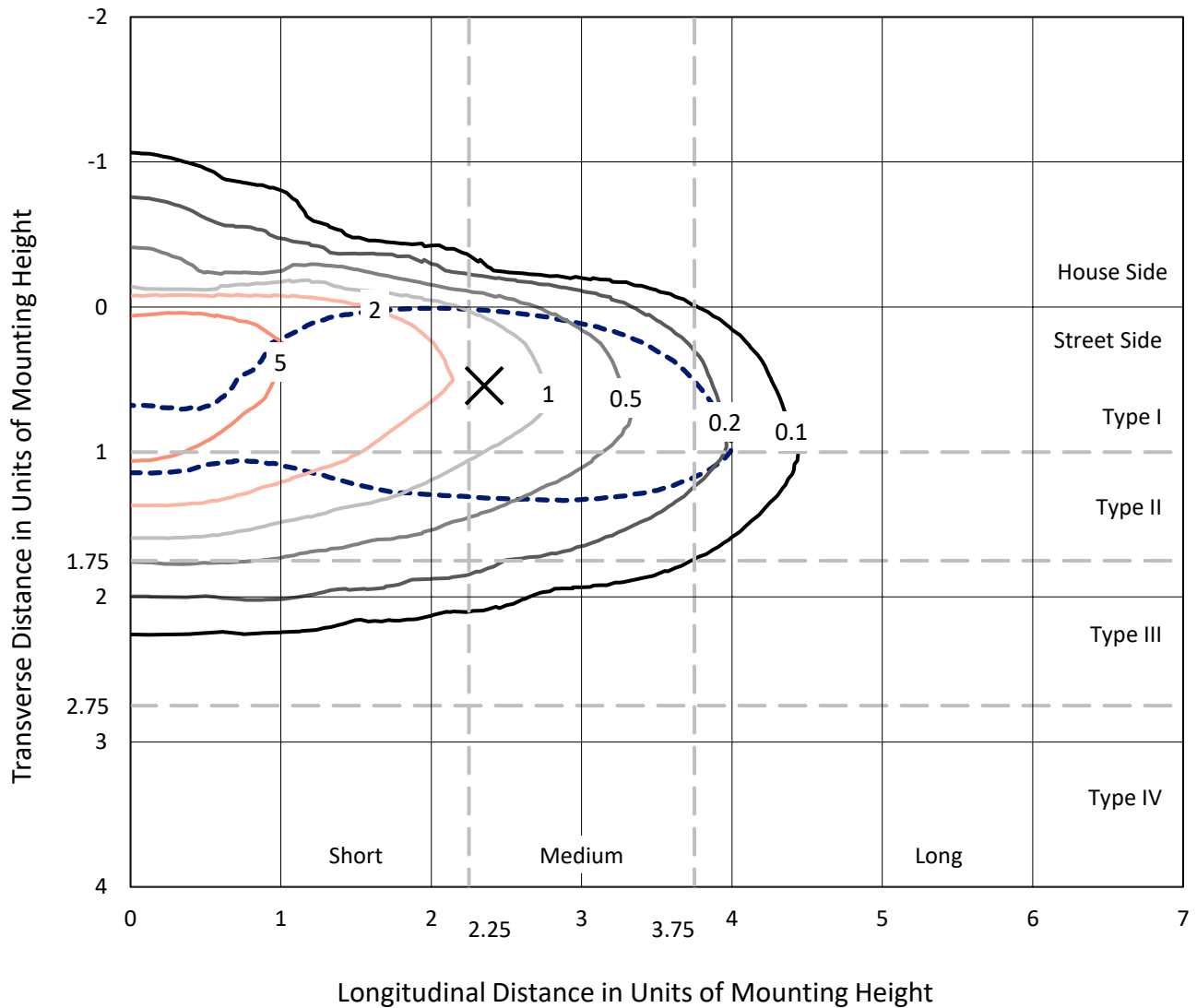
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

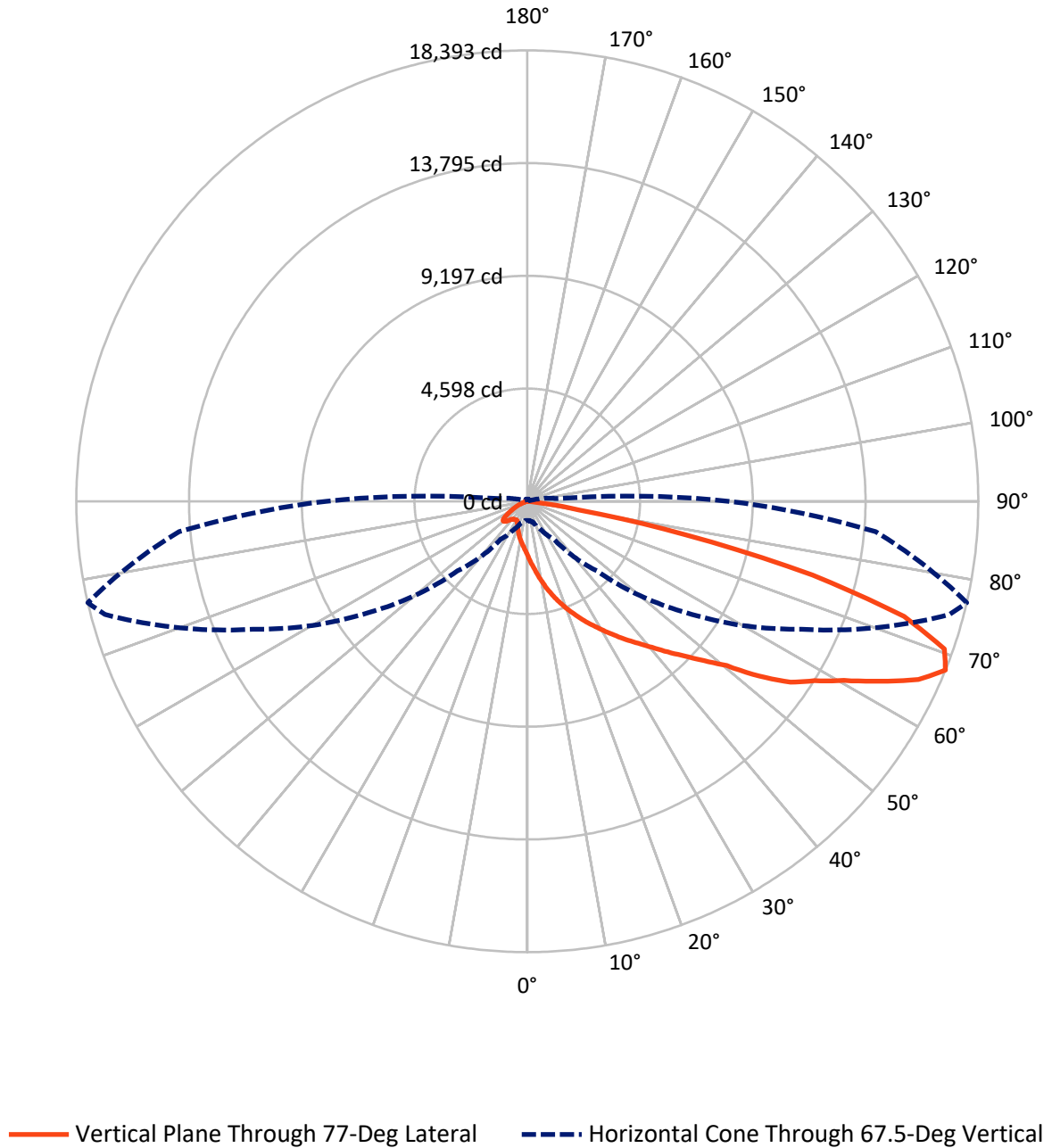
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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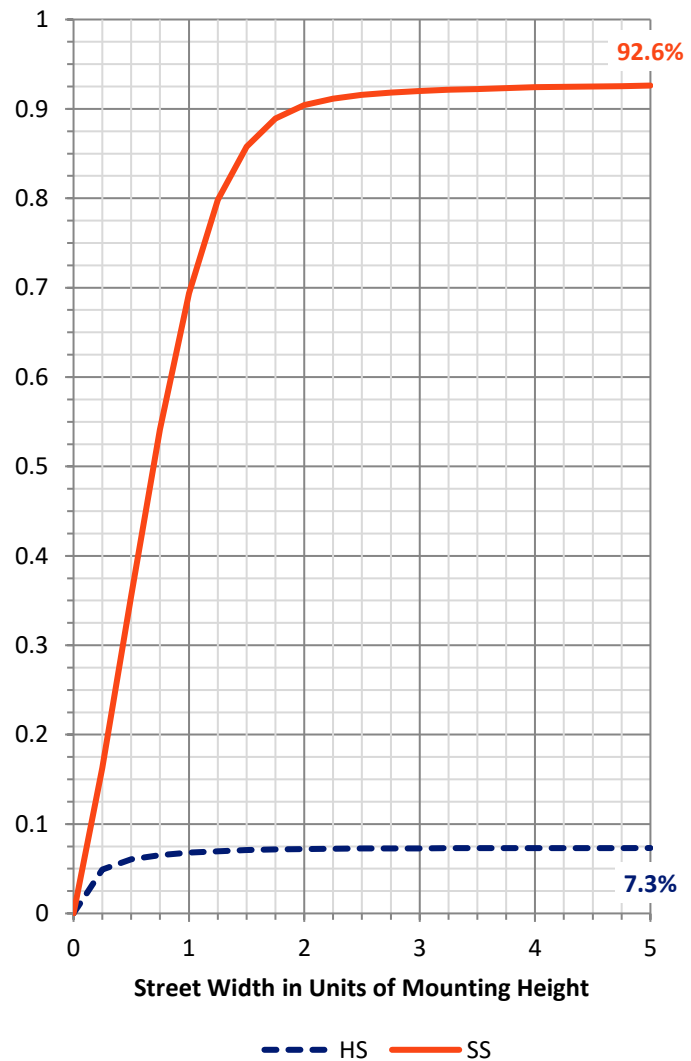
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.4	0.0	1411.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	17773.6	0.0	17773.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	19185.0	0.0	19185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	1.2
10°-20°	790.7	4.1
20°-30°	1525.9	8.0
30°-40°	2649.0	13.8
40°-50°	3846.3	20.0
50°-60°	4417.0	23.0
60°-70°	3834.7	20.0
70°-80°	1806.2	9.4
80°-90°	89.3	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°	19185.0	100.0
0°-180°	19185.0	100.0

Coefficient of Utilization



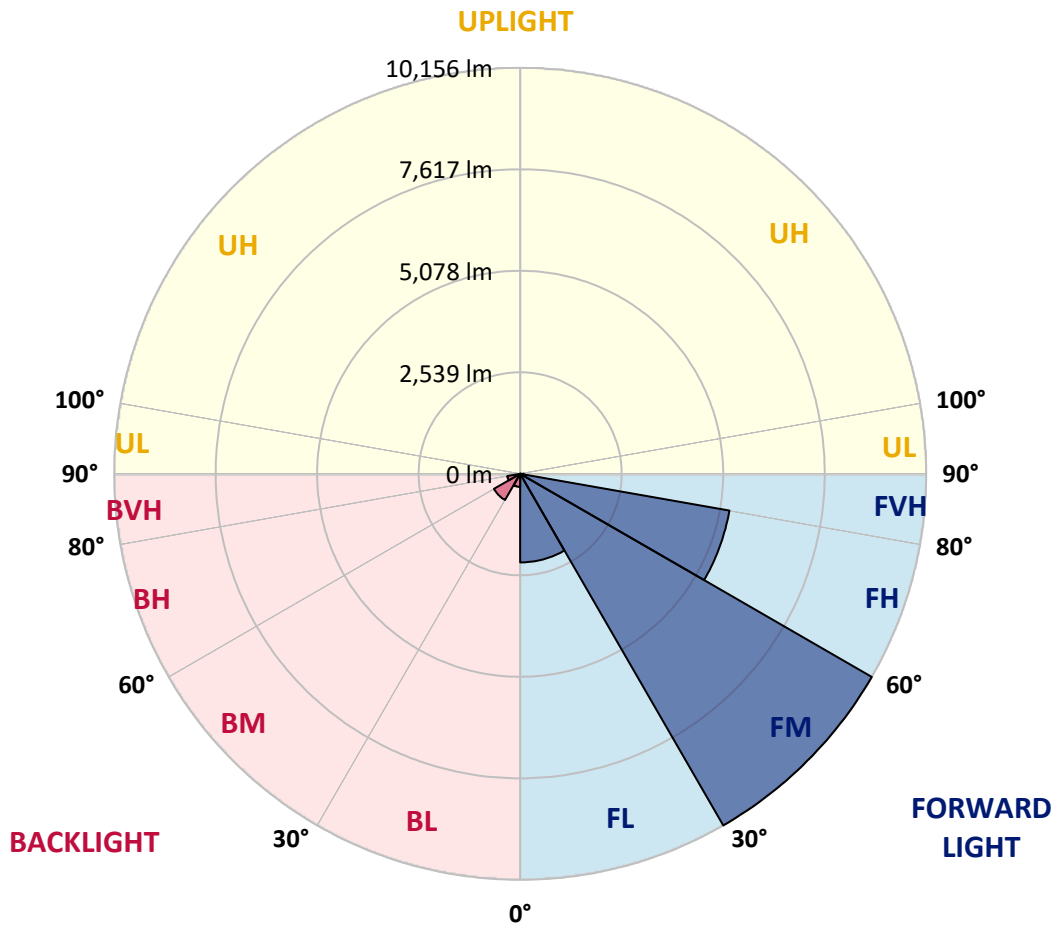
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.7	11.5			
FM (30°-60°)	10156.0	52.9			
FH (60°-80°)	5314.2	27.7			G3/7500
FVH (80°-90°)	87.7	0.5			G1/100
BL (0°-30°)	326.8	1.7	B1/500		
BM (30°-60°)	756.3	3.9	B1/1000		
BH (60°-80°)	326.8	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3
2.5°	3062.9	3082.0	3054.6	3002.2	2923.5	2872.3	2747.2	2629.3	2498.2	2456.5	2325.5
5°	3733.6	3750.3	3719.4	3662.2	3557.3	3457.3	3292.9	3046.2	2790.1	2707.9	2475.6
7.5°	4230.4	4240.0	4228.1	4175.6	4075.6	3962.4	3778.9	3487.0	3107.0	3016.5	2660.3
10°	4587.8	4618.8	4615.2	4595.0	4528.3	4436.5	4241.2	3908.8	3462.0	3345.3	2868.7
12.5°	4824.9	4859.5	4879.7	4925.0	4921.4	4863.0	4691.5	4340.0	3815.9	3678.8	3103.4
15°	4894.0	4930.9	5008.4	5113.2	5206.1	5235.9	5115.6	4763.0	4205.4	4030.3	3344.1
17.5°	4854.7	4911.9	5004.8	5170.4	5374.1	5508.7	5495.6	5171.6	4559.2	4359.1	3580.0
20°	4941.7	4996.5	5069.1	5208.5	5445.6	5689.8	5787.5	5562.4	4910.7	4701.0	3827.8
22.5°	5423.0	5413.4	5420.6	5443.2	5585.0	5826.8	6028.2	5917.4	5258.6	5044.1	4089.9
25°	6185.4	6142.5	6069.9	5947.2	5911.4	6028.2	6237.8	6231.9	5625.5	5395.6	4357.9
27.5°	7059.9	7052.7	6882.4	6586.9	6420.1	6374.8	6474.9	6538.1	5988.9	5743.4	4627.2
30°	7897.4	7916.4	7686.5	7357.7	7051.5	6874.0	6783.5	6828.7	6358.2	6118.7	4904.7
32.5°	8626.5	8646.7	8396.5	8011.7	7632.9	7418.5	7227.8	7115.9	6760.8	6499.9	5209.7
35°	9242.4	9262.6	8975.5	8550.2	8146.4	7952.2	7736.5	7430.4	7165.9	6922.9	5549.2
37.5°	9792.8	9786.8	9402.0	8973.1	8576.4	8422.8	8309.6	7817.6	7582.9	7348.2	5925.7
40°	10118.0	10143.0	9814.2	9341.3	8956.5	8844.5	8837.3	8297.7	8064.2	7836.6	6337.9
42.5°	10213.3	10257.4	10019.1	9630.8	9281.7	9160.2	9347.2	8817.1	8624.1	8402.5	6803.7
45°	10041.8	10084.7	9976.3	9707.0	9503.3	9424.7	9785.6	9355.6	9222.1	9002.9	7329.1
47.5°	9541.4	9595.0	9621.2	9564.1	9561.7	9641.5	10178.8	9922.6	9932.2	9708.2	7937.9
50°	8572.9	8663.4	8904.1	9106.6	9419.9	9813.0	10561.2	10537.4	10732.8	10539.8	8731.3
52.5°	6812.1	6940.7	7769.9	8323.9	9028.0	9780.9	10981.7	11523.8	12137.3	11855.0	9850.0
55°	5474.2	5474.2	6148.5	7185.0	8263.1	9568.8	11165.2	12164.7	13094.0	13027.3	10637.4
57.5°	4462.7	4516.4	4946.4	5862.6	7156.4	9063.7	11278.4	12567.4	13864.8	13815.9	11407.1
60°	2754.4	2869.9	3682.4	4586.6	5897.1	8164.2	11206.9	12974.8	14800.0	14839.3	12333.9
62.5°	1551.1	1594.0	1956.2	3300.0	4585.5	6955.0	10660.1	13202.4	15996.1	16162.9	13289.4
65°	1071.0	1092.5	1231.8	2053.9	3178.5	5537.3	9591.5	13060.6	17194.6	17531.7	14099.5
67.5°	777.9	788.7	875.6	1254.5	1885.9	4014.8	7916.4	12345.8	17829.5	18393.0	14254.3
70°	598.1	605.2	668.3	824.4	1113.9	2478.0	5749.4	10924.6	17369.7	18042.8	13460.9
72.5°	486.1	493.2	542.1	610.0	738.6	1465.3	3484.7	8871.9	15339.7	16066.4	11459.5
75°	409.8	419.4	463.4	507.5	579.0	941.2	1634.5	6178.3	11535.7	12012.2	7968.9
77.5°	227.5	209.7	376.5	420.5	488.4	595.7	764.8	3636.0	6460.6	6592.9	3535.9
80°	141.8	146.5	299.0	338.3	375.3	300.2	350.3	1399.8	2239.7	2127.7	685.0
82.5°	8.3	19.1	229.9	244.2	257.3	128.7	132.2	475.3	539.7	495.6	121.5
85°	0.0	0.0	104.8	84.6	89.4	36.9	38.1	110.8	72.7	78.6	23.8
87.5°	0.0	0.0	0.0	2.4	0.0	3.6	7.1	9.5	3.6	4.8	8.3
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°	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3	2212.3
2.5°	2242.1	2158.7	1989.5	1823.9	1689.3	1564.2	1474.9	1390.3	1347.4	1345.0	1342.6
5°	2310.0	2134.9	1796.5	1497.5	1256.9	1063.9	938.8	849.4	804.2	788.7	786.3
7.5°	2405.3	2142.0	1627.4	1211.6	928.1	762.5	691.0	662.4	652.9	642.1	639.7
10°	2525.6	2158.7	1476.1	975.7	731.5	648.1	619.5	607.6	600.4	593.3	590.9
12.5°	2660.3	2174.2	1326.0	810.1	643.3	600.4	580.2	565.9	556.4	548.0	545.6
15°	2791.3	2183.7	1169.9	694.5	598.1	563.5	542.1	526.6	513.5	503.9	502.7
17.5°	2921.2	2196.8	1023.4	625.5	561.1	526.6	505.1	486.1	475.3	464.6	463.4
20°	3065.3	2194.4	885.2	576.6	524.2	489.6	467.0	449.1	438.4	426.5	425.3
22.5°	3198.7	2182.5	763.6	534.9	486.1	452.7	427.7	409.8	399.1	389.6	388.4
25°	3352.4	2173.0	662.4	496.8	450.3	417.0	389.6	372.9	361.0	352.6	351.4
27.5°	3500.1	2158.7	588.5	462.2	415.8	383.6	357.4	338.3	327.6	321.7	321.7
30°	3645.5	2155.1	561.1	428.9	384.8	352.6	326.4	308.6	300.2	297.8	296.6
32.5°	3820.6	2164.7	573.0	417.0	356.2	324.0	299.0	285.9	277.6	277.6	277.6
35°	4007.7	2162.3	590.9	427.7	337.1	295.5	276.4	268.1	259.7	259.7	259.7
37.5°	4242.4	2165.9	605.2	445.6	330.0	271.6	260.9	250.2	245.4	245.4	245.4
40°	4592.6	2283.8	598.1	461.0	327.6	254.9	233.5	229.9	226.4	226.4	226.4
42.5°	5021.5	2539.9	607.6	462.2	326.4	243.0	214.4	221.6	213.2	212.1	210.9
45°	5490.9	2819.9	668.3	437.2	325.2	237.1	204.9	213.2	200.1	200.1	200.1
47.5°	5956.7	3097.5	730.3	401.5	321.7	235.9	196.6	191.8	188.2	189.4	189.4
50°	6598.8	3323.8	754.1	352.6	313.3	233.5	181.1	182.3	179.9	182.3	182.3
52.5°	7298.1	3371.5	725.5	297.8	289.5	226.4	170.4	175.1	173.9	176.3	176.3
55°	7734.2	3320.3	599.2	247.8	252.6	197.8	159.6	169.2	169.2	169.2	169.2
57.5°	8184.5	3102.2	425.3	201.3	209.7	162.0	150.1	163.2	162.0	160.8	160.8
60°	8508.5	2749.6	280.0	165.6	166.8	133.4	139.4	153.7	152.5	146.5	146.5
62.5°	8750.4	2360.0	179.9	140.6	127.5	120.3	127.5	139.4	134.6	121.5	119.1
65°	8723.0	1820.4	138.2	120.3	104.8	104.8	110.8	121.5	107.2	85.8	83.4
67.5°	8214.3	1231.8	114.4	101.3	88.2	87.0	91.7	101.3	91.7	72.7	70.3
70°	7305.3	805.3	91.7	78.6	70.3	64.3	73.9	87.0	77.4	58.4	56.0
72.5°	5929.3	490.8	69.1	57.2	51.2	41.7	58.4	71.5	61.9	42.9	40.5
75°	3836.1	250.2	47.7	36.9	27.4	25.0	42.9	53.6	42.9	26.2	22.6
77.5°	1467.7	104.8	26.2	16.7	14.3	11.9	23.8	32.2	17.9	6.0	4.8
80°	282.3	44.1	13.1	8.3	7.1	4.8	3.6	2.4	0.0	0.0	0.0
82.5°	48.8	14.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.0	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)