

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: P944506

Luminaire Tested: **GALN-SB9C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944506
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-SB9C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 49621 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 449.8
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

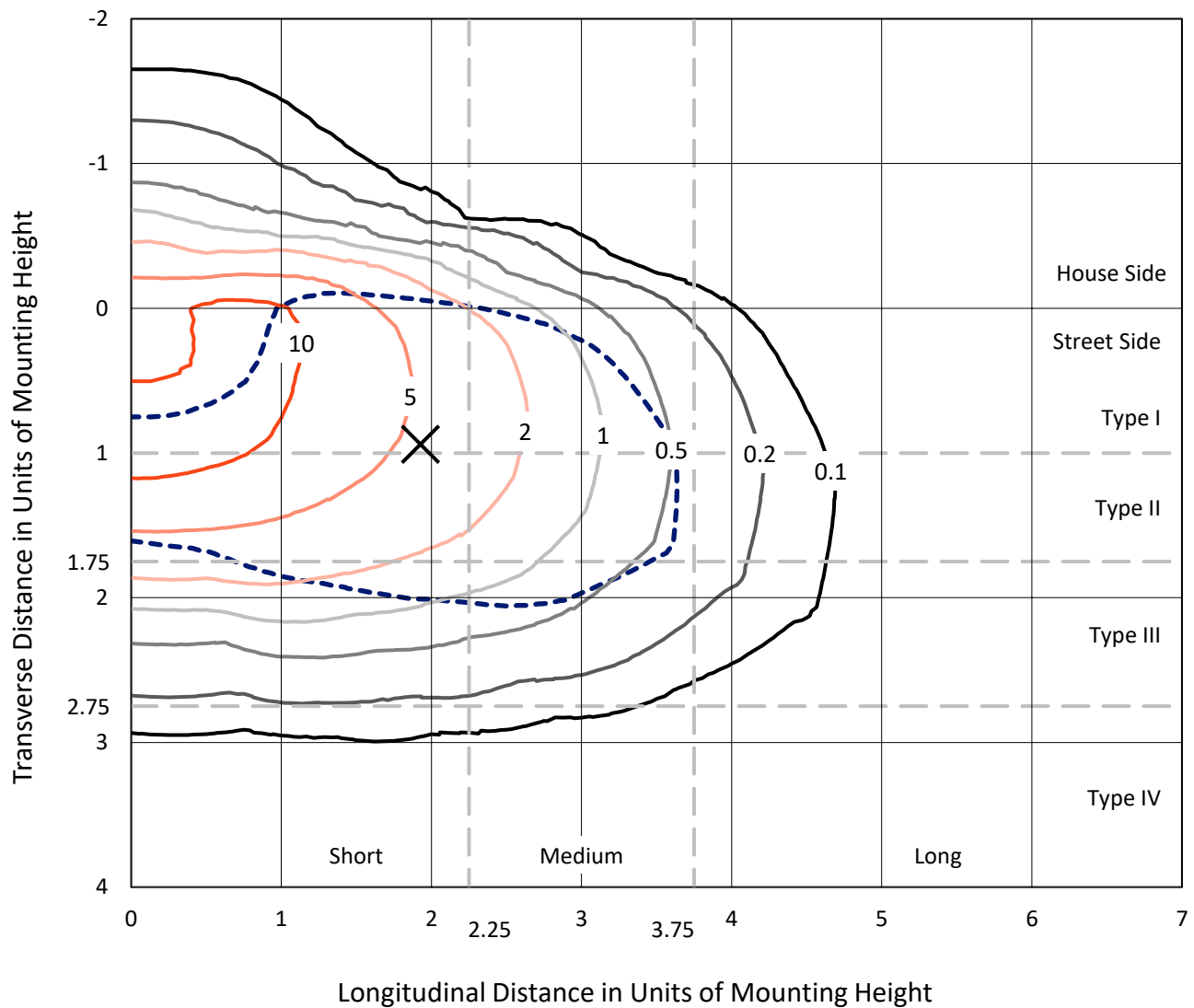


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

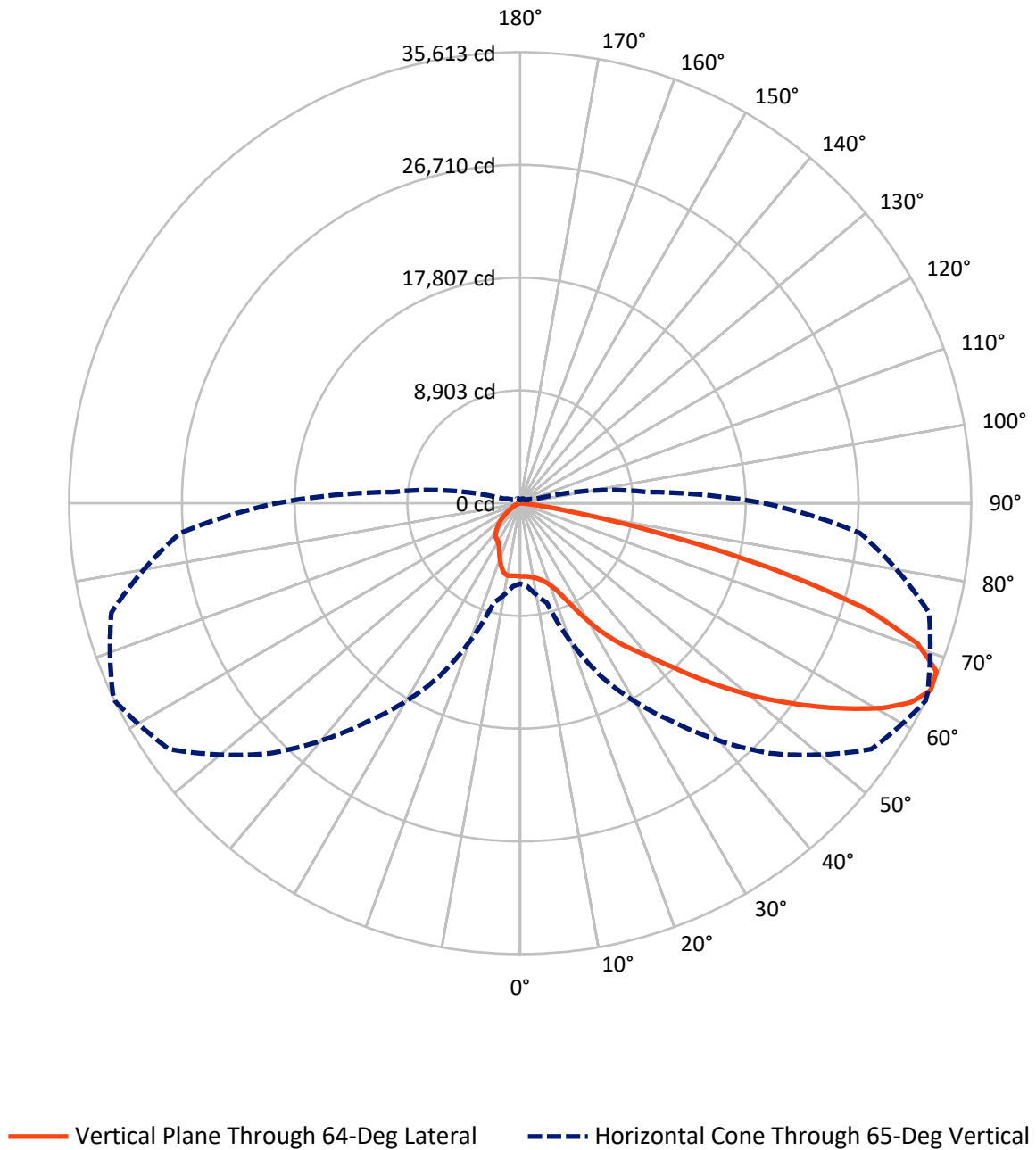


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6635.8	0.0	6635.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42985.2	0.0	42985.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	49621.0	0.0	49621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.5	1.1
10°-20°	1444.2	2.9
20°-30°	2736.7	5.5
30°-40°	5537.7	11.2
40°-50°	9433.6	19.0
50°-60°	12828.9	25.9
60°-70°	12047.0	24.3
70°-80°	4826.6	9.7
80°-90°	233.8	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°	49621.0	100.0
0°-180°	49621.0	100.0

Coefficient of Utilization



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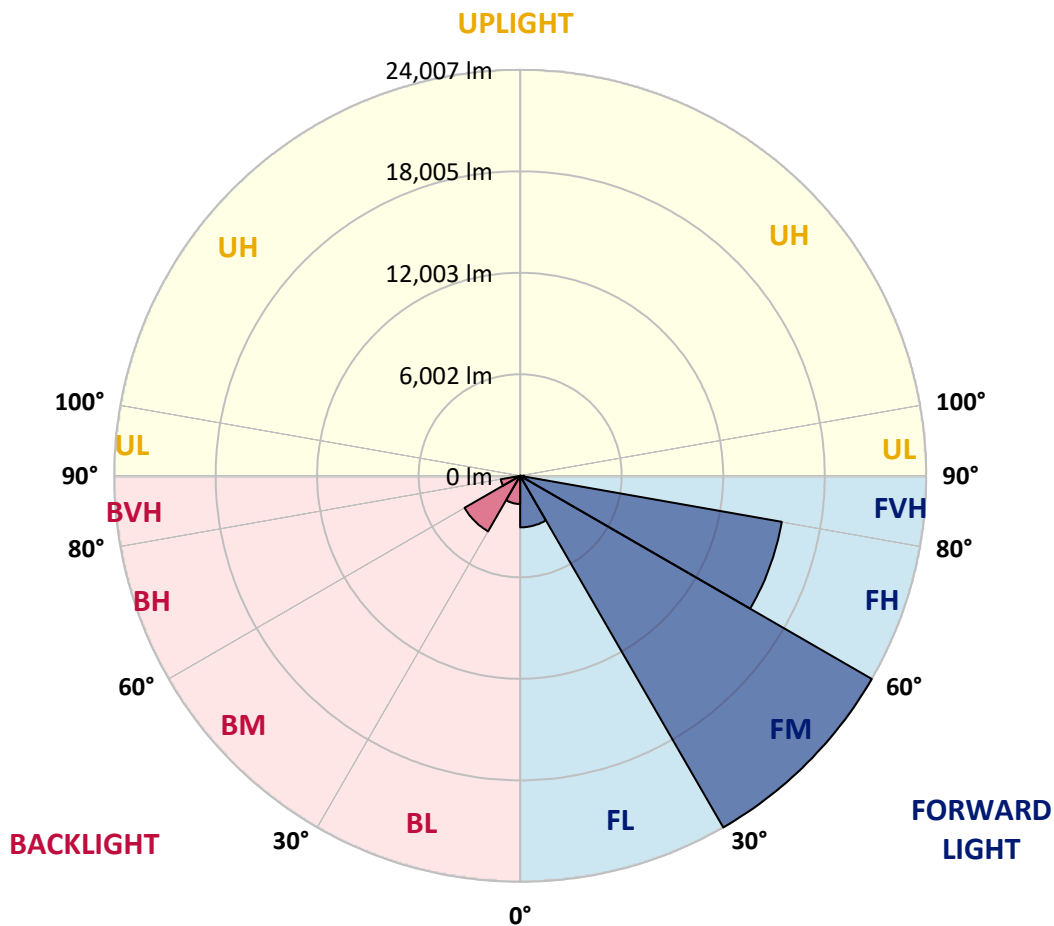
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3047.3	6.1			
FM	(30°-60°)	24006.6	48.4			
FH	(60°-80°)	15708.9	31.7			G5
FVH	(80°-90°)	222.4	0.4			G2/225
BL	(0°-30°)	1666.1	3.4	B3/2500		
BM	(30°-60°)	3793.7	7.6	B3/5000		
BH	(60°-80°)	1164.7	2.3	B3/2500		G3/2500
BVH	(80°-90°)	11.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4
2.5°	5751.5	5791.4	5781.4	5771.4	5768.1	5774.8	5778.1	5774.8	5774.8	5774.8	5778.1
5°	5641.7	5675.0	5675.0	5698.3	5731.5	5771.4	5801.4	5808.0	5814.7	5824.7	5821.3
7.5°	5432.1	5458.7	5478.7	5555.2	5638.4	5744.8	5834.6	5881.2	5887.9	5924.5	5937.8
10°	5289.1	5322.4	5355.6	5435.5	5555.2	5714.9	5867.9	5981.0	5997.6	6084.1	6124.0
12.5°	5282.4	5315.7	5359.0	5445.4	5585.2	5754.8	5941.1	6104.1	6134.0	6260.4	6343.6
15°	5352.3	5392.2	5432.1	5538.6	5688.3	5894.5	6094.1	6297.0	6327.0	6506.6	6596.4
17.5°	5495.3	5548.6	5578.5	5684.9	5844.6	6074.1	6336.9	6569.8	6596.4	6806.0	6919.1
20°	5778.1	5841.3	5851.3	5937.8	6094.1	6340.3	6653.0	6942.4	6975.6	7215.1	7341.5
22.5°	6363.6	6453.4	6373.5	6416.8	6556.5	6802.6	7141.9	7507.9	7554.4	7827.2	7940.3
25°	7394.8	7521.2	7314.9	7241.7	7301.6	7557.8	7983.5	8445.9	8499.1	8718.7	8775.2
27.5°	9420.6	9257.6	8944.9	8638.9	8459.2	8605.6	9084.6	9656.8	9723.3	9936.2	9869.7
30°	11646.0	11503.0	11080.5	10401.9	9976.1	9952.8	10395.2	11033.9	11110.4	11313.3	11110.4
32.5°	13874.7	13738.3	13279.3	12444.4	11705.9	11340.0	11646.0	12354.5	12394.5	12524.2	12224.8
35°	16066.9	15927.2	15468.1	14613.2	13705.1	12873.5	12813.6	13611.9	13625.2	13761.6	13315.9
37.5°	18272.3	18155.9	17666.9	16828.6	15933.8	14786.2	14230.7	14802.8	14819.5	14952.5	14490.1
40°	19845.8	19895.7	19559.7	18911.0	18142.6	16888.5	15820.7	16070.2	15970.4	16193.3	15917.2
42.5°	21196.3	21296.1	21003.4	20677.4	20231.6	19127.2	17790.0	17746.8	17587.1	17706.8	17420.8
45°	22363.9	22447.1	22184.3	22107.8	22097.8	21322.7	19942.2	19682.8	19459.9	19436.6	19094.0
47.5°	22793.0	22952.7	23065.8	23321.9	23820.9	23494.9	22167.6	21765.1	21515.7	21332.7	20790.5
50°	22956.0	23125.7	23511.5	24256.7	25437.6	25577.3	24383.1	23930.7	23624.6	23292.0	22493.6
52.5°	22736.5	23039.2	23558.1	24812.2	26525.3	27247.2	26508.7	26112.8	25763.6	25221.3	24037.1
55°	21442.5	21745.2	22806.3	24805.5	27067.5	28418.1	28517.9	28341.6	27949.1	27094.2	25284.6
57.5°	18714.8	19163.8	20843.7	23960.6	27057.6	29426.0	30487.2	30613.6	30174.5	28950.3	26265.9
60°	14935.9	15544.6	17593.7	22087.8	26222.6	29971.6	32213.6	32845.6	32379.9	30779.9	27060.9
62.5°	10421.9	11127.1	13066.4	19153.9	24313.2	29579.0	33474.3	34641.9	34289.3	32416.5	27366.9
65°	6356.9	6583.1	8146.5	15072.3	21066.6	27935.8	33863.5	35613.3	35496.8	33417.8	26914.5
67.5°	4234.6	4424.2	4873.3	10335.4	16353.0	24652.5	32932.1	35443.6	35476.9	33254.8	25257.9
70°	2551.4	2714.4	3007.1	6010.9	10598.2	19513.1	30048.1	33281.4	33474.3	31075.9	22117.7
72.5°	1051.2	1160.9	1427.1	2724.4	5488.7	12384.5	23927.3	28574.4	29023.5	26129.5	16975.0
75°	595.4	652.0	838.3	1367.2	2381.8	5771.4	14493.5	20284.9	20946.8	18009.5	10212.3
77.5°	395.9	422.5	542.2	884.8	1340.6	1969.3	6193.9	10568.2	11832.3	9836.4	4420.9
80°	266.1	289.4	372.6	592.1	871.5	844.9	1972.6	3915.3	4816.7	3379.7	1077.8
82.5°	179.6	183.0	266.1	389.2	552.2	409.2	582.1	1217.5	1530.2	978.0	409.2
85°	103.1	99.8	196.3	226.2	246.2	169.7	176.3	365.9	479.0	412.5	232.9
87.5°	13.3	20.0	76.5	59.9	33.3	36.6	36.6	63.2	93.1	99.8	49.9
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°	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4	5771.4
2.5°	5778.1	5774.8	5764.8	5754.8	5731.5	5718.2	5724.9	5718.2	5714.9	5718.2	5731.5
5°	5821.3	5811.4	5784.7	5751.5	5704.9	5648.4	5611.8	5558.5	5508.6	5478.7	5485.4
7.5°	5937.8	5927.8	5891.2	5798.0	5648.4	5412.2	5196.0	5006.3	4863.3	4780.1	4783.5
10°	6124.0	6107.4	6050.9	5844.6	5452.1	4936.5	4507.4	4151.4	3918.6	3808.8	3798.8
12.5°	6343.6	6323.6	6223.8	5801.4	5079.5	4274.5	3682.4	3286.6	3070.3	2973.9	2963.9
15°	6603.1	6576.4	6380.2	5595.1	4537.3	3542.7	3000.5	2704.4	2564.7	2478.2	2481.6
17.5°	6925.7	6879.2	6496.6	5285.8	3948.5	2983.8	2581.3	2358.5	2235.4	2152.2	2145.6
20°	7344.9	7268.4	6589.8	4916.5	3406.3	2631.2	2298.6	2112.3	2019.2	1946.0	1932.7
22.5°	7930.3	7820.5	6702.9	4517.4	3023.8	2388.4	2089.0	1952.6	1876.1	1793.0	1779.7
25°	8655.5	8525.8	6842.6	4148.1	2761.0	2178.8	1936.0	1822.9	1733.1	1636.6	1626.6
27.5°	9670.1	9437.2	7008.9	3845.4	2534.8	1999.2	1796.3	1669.9	1566.8	1486.9	1470.3
30°	10801.1	10418.5	7155.3	3662.5	2328.5	1832.9	1613.3	1486.9	1390.5	1333.9	1323.9
32.5°	11872.2	11353.3	7251.7	3582.6	2142.3	1643.3	1413.8	1277.4	1204.2	1187.6	1197.5
35°	12883.4	12198.2	7241.7	3506.1	1975.9	1453.7	1217.5	1077.8	1021.2	1031.2	1031.2
37.5°	14047.7	13099.7	7171.9	3386.4	1839.5	1280.7	1047.8	924.8	874.9	878.2	891.5
40°	15401.6	14140.9	7128.6	3160.2	1689.9	1121.0	908.1	808.3	771.7	758.4	755.1
42.5°	16845.3	15148.8	7135.3	2904.0	1503.6	978.0	811.7	728.5	695.2	685.3	681.9
45°	18295.6	16110.1	7145.3	2637.9	1307.3	868.2	741.8	671.9	652.0	638.7	638.7
47.5°	19659.5	16928.4	6959.0	2351.8	1114.4	785.0	685.3	638.7	622.1	605.4	605.4
50°	20930.2	17474.0	6509.9	2019.2	961.4	718.5	642.0	608.7	592.1	575.5	575.5
52.5°	21918.2	17560.5	5768.1	1676.5	854.9	668.6	615.4	585.5	565.5	548.9	545.5
55°	22357.3	17018.3	4713.6	1357.2	771.7	625.4	588.8	558.8	535.6	518.9	515.6
57.5°	22244.2	15877.3	3675.8	1091.1	691.9	582.1	555.5	535.6	509.0	482.3	479.0
60°	21688.6	14350.4	2771.0	908.1	618.7	535.6	518.9	502.3	465.7	425.8	419.1
62.5°	20727.3	12431.0	1975.9	751.8	538.9	482.3	475.7	462.4	409.2	336.0	329.3
65°	19257.0	10099.2	1330.6	625.4	462.4	422.5	425.8	402.5	332.6	249.5	242.8
67.5°	17108.1	7384.8	851.6	512.3	385.9	352.6	355.9	342.6	282.8	212.9	202.9
70°	14370.4	4889.9	555.5	389.2	309.4	272.8	292.7	296.1	239.5	173.0	166.3
72.5°	10535.0	2887.4	389.2	289.4	226.2	189.6	239.5	246.2	192.9	129.7	123.1
75°	6004.3	1370.5	292.7	209.6	139.7	133.1	186.3	186.3	133.1	86.5	79.8
77.5°	2521.5	572.2	206.2	136.4	79.8	76.5	126.4	116.4	66.5	39.9	39.9
80°	728.5	256.1	109.8	66.5	33.3	29.9	49.9	36.6	16.6	6.7	6.7
82.5°	286.1	113.1	43.2	26.6	13.3	13.3	6.7	0.0	0.0	0.0	0.0
85°	169.7	46.6	20.0	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.2	10.0	6.7	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)