

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: P943987

Luminaire Tested: **GALN-SB8D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68021 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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

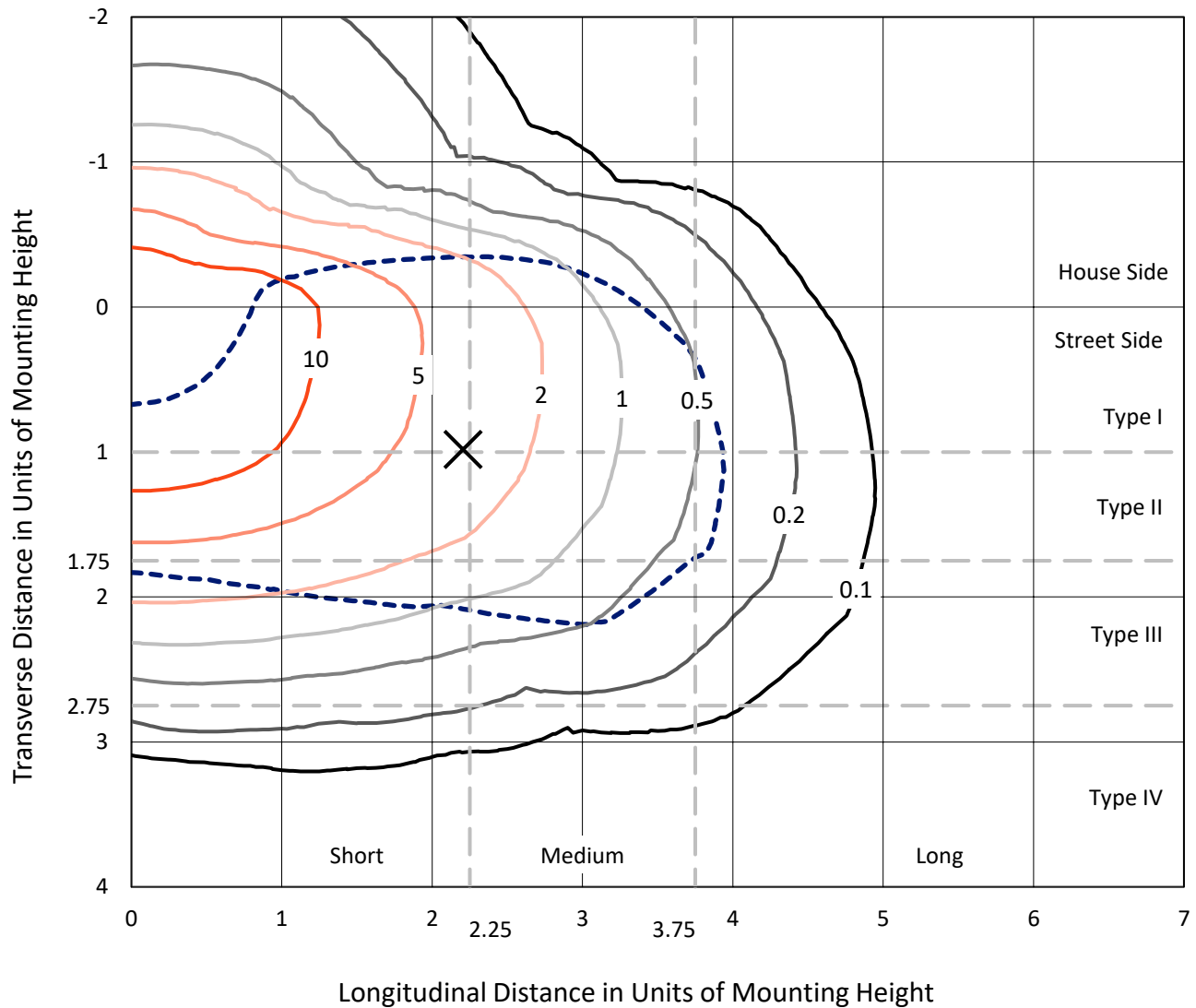


REPORT NUMBER: P943987

CATALOG NUMBER: GALN-SB8D-722-U-T3

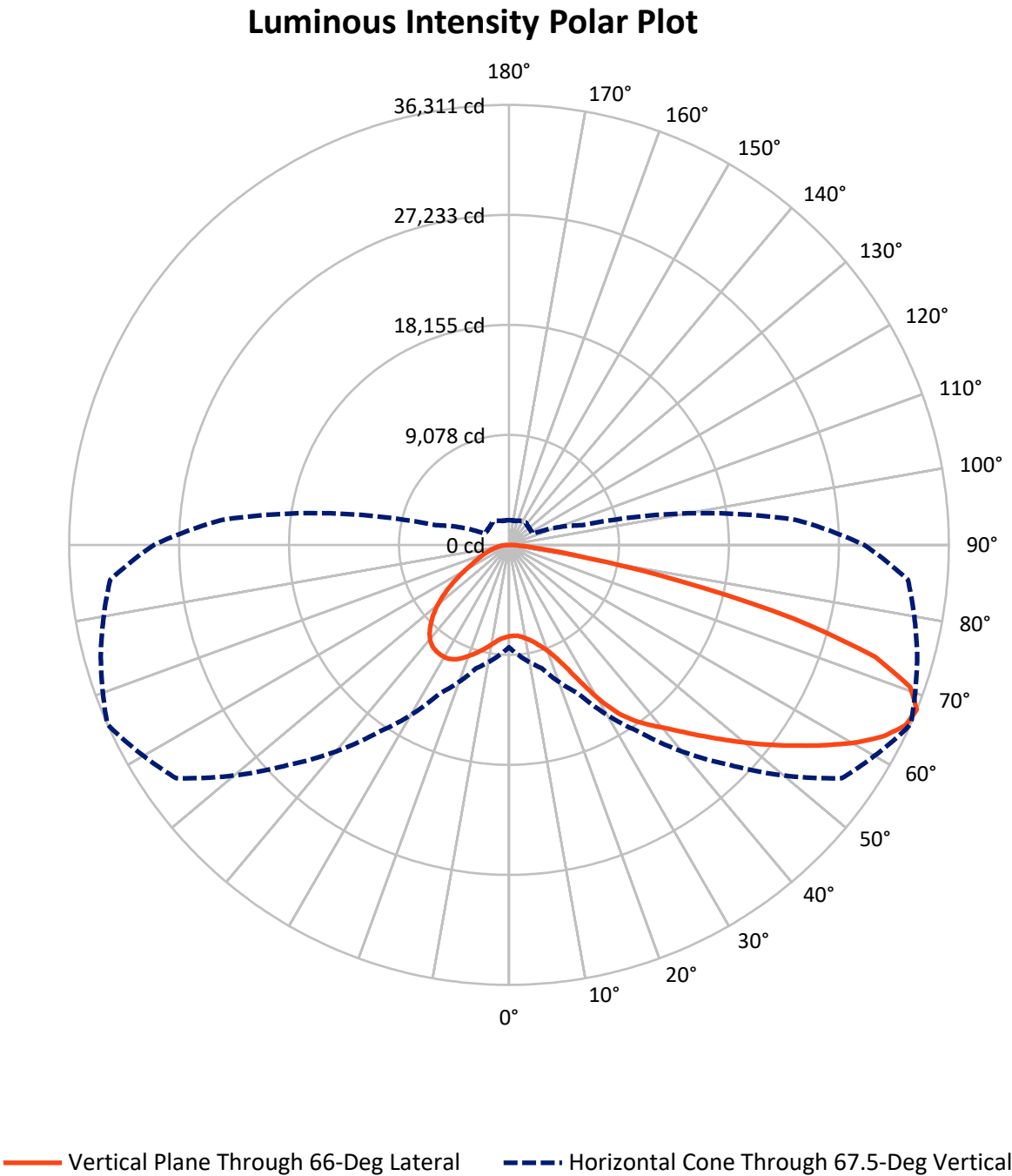
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
Type III - Short - N/A

REPORT NUMBER: P943987
CATALOG NUMBER: GALN-SB8D-722-U-T3



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16913.2	0.0	16913.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	51107.8	0.0	51107.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	68021.0	0.0	68021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.0	1.1
10°-20°	2471.3	3.6
20°-30°	4763.3	7.0
30°-40°	8351.8	12.3
40°-50°	12416.4	18.3
50°-60°	15739.0	23.1
60°-70°	15400.2	22.6
70°-80°	7346.0	10.8
80°-90°	785.1	1.2
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°	68021.0	100.0
0°-180°	68021.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943987

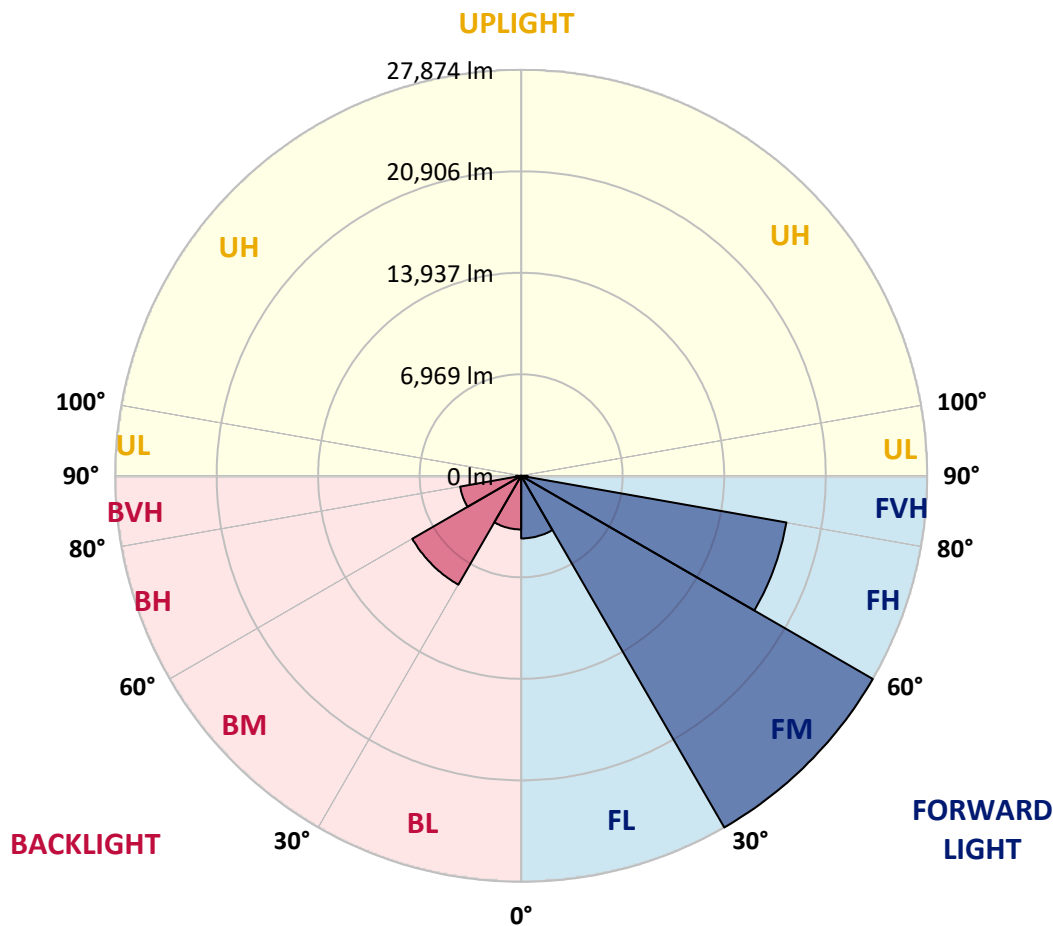
CATALOG NUMBER: GALN-SB8D-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4298.3	6.3			
FM	(30°-60°)	27874.4	41.0			
FH	(60°-80°)	18490.0	27.2			G5
FVH	(80°-90°)	445.1	0.7			G3/500
BL	(0°-30°)	3684.3	5.4	B4/5000		
BM	(30°-60°)	8632.7	12.7	B5		
BH	(60°-80°)	4256.2	6.3	B4/5000		G4/5000
BVH	(80°-90°)	340.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



REPORT NUMBER: P943987

CATALOG NUMBER: GALN-SB8D-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4
2.5°	7465.8	7508.7	7498.0	7480.1	7476.5	7483.7	7494.4	7505.1	7501.5	7519.4	7548.0
5°	7444.4	7487.2	7483.7	7483.7	7498.0	7526.6	7544.4	7562.3	7544.4	7565.9	7605.2
7.5°	7458.7	7490.8	7505.1	7519.4	7555.1	7608.8	7651.6	7691.0	7669.5	7694.5	7744.6
10°	7640.9	7665.9	7680.2	7680.2	7705.3	7766.0	7808.9	7880.4	7862.5	7901.8	7966.1
12.5°	7973.3	7998.3	7998.3	7984.0	8001.9	8041.2	8055.5	8134.1	8102.0	8166.3	8230.6
15°	8380.7	8430.7	8391.4	8366.4	8373.6	8412.9	8409.3	8470.1	8437.9	8491.5	8548.7
17.5°	8831.0	8895.3	8831.0	8827.4	8813.1	8856.0	8859.6	8913.2	8856.0	8895.3	8934.7
20°	9363.5	9452.9	9399.3	9417.1	9385.0	9402.8	9420.7	9499.3	9410.0	9438.6	9427.9
22.5°	10114.0	10221.3	10164.1	10232.0	10210.5	10196.2	10192.7	10332.0	10192.7	10203.4	10099.7
25°	11207.6	11336.3	11236.2	11329.2	11329.2	11375.6	11429.2	11607.9	11375.6	11307.7	11039.7
27.5°	12823.0	12951.7	12755.1	12812.3	12794.4	12908.8	12851.6	13294.8	13044.6	12933.8	12394.2
30°	14767.2	14995.9	14624.3	14610.0	14592.1	14774.4	14856.6	15149.6	14895.9	14785.1	14134.6
32.5°	16868.6	17108.1	16664.9	16536.3	16468.4	16579.2	16511.3	16747.1	16572.0	16400.5	15596.3
35°	19091.6	19327.5	18905.7	18655.6	18384.0	18151.7	17908.6	17969.4	17805.0	17544.1	16711.4
37.5°	21193.0	21625.5	21178.7	20910.7	20410.3	19956.5	19277.4	18995.1	18841.4	18602.0	17762.1
40°	23333.8	23580.4	23240.8	23012.1	22468.9	21757.7	20671.2	20074.4	19867.1	19634.8	18923.6
42.5°	24909.8	25145.7	24963.4	24806.2	24380.9	23555.3	22150.8	21403.9	21103.7	20842.8	20238.8
45°	26160.7	26335.8	26221.4	26278.6	26096.4	25295.8	23684.0	22829.8	22518.9	22200.8	21725.5
47.5°	26664.6	26850.4	27032.7	27372.2	27683.2	27093.5	25331.6	24373.8	24045.0	23719.7	23251.6
50°	26607.4	26796.8	27325.8	28047.7	29012.6	28816.1	27068.4	26017.7	25714.0	25342.3	24909.8
52.5°	26150.0	26364.4	27043.4	28244.3	29781.0	30106.2	28837.5	27715.3	27429.4	26986.3	26553.8
55°	24949.1	25077.8	26096.4	27797.5	29963.3	31006.8	30570.8	29523.7	29237.8	28619.5	28147.8
57.5°	22722.6	22908.5	24391.6	26593.1	29505.8	31618.0	32093.3	31425.0	31149.8	30259.9	29766.7
60°	19817.1	20113.7	21811.3	24570.3	28340.7	31614.4	33476.4	33294.1	33065.4	31875.3	31360.7
62.5°	16529.1	16872.2	18505.5	21711.2	26303.6	30717.4	34341.3	34859.5	34741.5	33365.6	32708.0
65°	12694.4	12930.2	14556.3	18012.3	23133.6	28791.1	34441.3	35928.1	35949.5	34498.5	33412.1
67.5°	8452.2	9131.2	10542.9	13516.4	18887.9	25642.5	33562.2	36103.2	36310.5	34888.1	33058.2
70°	4124.2	5017.7	6400.8	8784.6	13516.4	20814.2	31264.2	34666.5	35127.5	33751.6	30949.7
72.5°	1711.9	2001.4	2755.4	4335.1	7758.9	14045.3	26646.7	30771.0	31625.1	29906.1	26021.3
75°	1154.4	1250.9	1576.1	2222.9	3534.6	6926.1	19216.7	22944.2	24320.1	22586.8	18462.6
77.5°	889.9	950.6	1147.2	1554.6	2101.4	2619.6	10285.6	13827.3	14538.5	13459.2	9606.5
80°	700.5	746.9	857.7	1132.9	1490.3	1401.0	3506.0	6265.0	6676.0	5600.2	3087.8
82.5°	607.6	625.4	614.7	768.4	990.0	818.4	1150.8	2312.3	2551.7	1851.3	1007.8
85°	439.6	489.6	511.1	475.3	525.4	414.6	471.8	818.4	900.6	804.1	568.2
87.5°	178.7	264.5	325.2	307.4	193.0	117.9	146.5	239.4	275.2	300.2	185.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943987

CATALOG NUMBER: GALN-SB8D-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4	7544.4
2.5°	7551.6	7576.6	7594.5	7615.9	7630.2	7651.6	7694.5	7719.5	7723.1	7741.0	7737.4
5°	7619.5	7655.2	7694.5	7751.7	7816.0	7869.6	7951.8	8009.0	8030.5	8048.3	8044.8
7.5°	7766.0	7816.0	7887.5	7987.6	8080.5	8152.0	8252.1	8320.0	8387.9	8412.9	8416.5
10°	7984.0	8055.5	8159.1	8294.9	8395.0	8487.9	8591.6	8648.8	8716.7	8745.2	8759.5
12.5°	8255.6	8330.7	8466.5	8655.9	8748.8	8813.1	8848.9	8834.6	8848.9	8873.9	8881.1
15°	8566.6	8648.8	8802.4	9006.1	9070.5	9013.3	8934.7	8863.2	8852.5	8859.6	8884.6
17.5°	8934.7	8995.4	9174.1	9345.7	9299.2	9063.3	8891.8	8777.4	8720.2	8702.4	8727.4
20°	9449.3	9449.3	9595.8	9703.0	9392.1	8991.8	8723.8	8538.0	8420.0	8370.0	8359.3
22.5°	10074.7	10017.5	10110.5	10035.4	9374.2	8791.7	8420.0	8098.4	7919.7	7848.2	7837.5
25°	10868.1	10800.2	10775.2	10310.6	9245.6	8473.6	7869.6	7480.1	7322.8	7283.5	7290.7
27.5°	12065.4	11893.8	11568.6	10460.7	9009.7	7973.3	7226.4	6865.4	6776.0	6779.6	6790.3
30°	13659.3	13316.2	12519.2	10485.7	8623.7	7265.7	6568.8	6311.4	6268.6	6286.4	6347.2
32.5°	15135.3	14810.1	13491.3	10371.4	8030.5	6572.3	5979.1	5807.5	5743.2	5764.6	5793.2
35°	16293.2	16203.9	14392.0	10210.5	7301.4	5921.9	5450.1	5303.6	5178.5	5149.9	5171.4
37.5°	17386.9	17351.1	15067.4	9985.4	6579.5	5460.9	5024.9	4831.9	4649.6	4549.5	4553.1
40°	18587.7	18551.9	15510.6	9638.7	5939.8	5060.6	4642.4	4388.7	4163.6	3981.3	3999.2
42.5°	19938.6	19727.7	15721.4	9141.9	5396.5	4721.1	4331.5	3988.4	3691.8	3523.8	3534.6
45°	21414.6	20939.3	15717.9	8509.4	4939.1	4410.1	3999.2	3513.1	3237.9	3080.7	3073.5
47.5°	22979.9	22097.2	15524.9	7808.9	4495.9	4067.1	3484.5	3112.8	2930.6	2834.1	2812.6
50°	24595.3	23180.1	15196.1	7004.8	4042.0	3677.5	3162.9	2909.1	2769.7	2680.4	2648.2
52.5°	26114.2	24162.9	14799.4	6093.4	3581.0	3298.7	3019.9	2823.4	2676.8	2576.8	2533.9
55°	27525.9	25009.9	14238.3	5160.7	3205.8	3044.9	2952.0	2787.6	2619.6	2501.7	2455.2
57.5°	28780.3	25560.3	13269.8	4285.1	2937.7	2869.8	2880.5	2726.9	2533.9	2433.8	2369.5
60°	29823.9	25964.1	11836.6	3473.8	2719.7	2698.3	2769.7	2612.5	2387.3	2273.0	2222.9
62.5°	30449.3	25957.0	10078.3	2844.8	2533.9	2541.0	2623.2	2469.5	2240.8	2133.6	2101.4
65°	30395.7	25320.8	8148.4	2433.8	2355.2	2362.3	2469.5	2312.3	2119.3	2055.0	2051.4
67.5°	29320.0	23769.8	6250.7	2165.8	2158.6	2190.8	2315.9	2205.1	2044.3	2037.1	2047.8
70°	26407.3	20549.7	4503.1	1951.3	1954.9	2001.4	2165.8	2137.2	2004.9	2019.2	2015.7
72.5°	21175.1	15667.8	3023.5	1726.2	1729.8	1804.8	2022.8	2083.6	1965.6	2155.0	2183.6
75°	14102.5	9770.9	1944.2	1486.7	1490.3	1586.8	1897.7	1979.9	1858.4	2147.9	2165.8
77.5°	6776.0	4392.3	1408.1	1250.9	1250.9	1340.2	1640.4	1772.6	1583.2	1669.0	1529.6
80°	2340.9	1651.1	1107.9	1007.8	986.4	1047.1	1383.1	1536.8	1365.2	1258.0	1179.4
82.5°	922.1	857.7	889.9	782.7	711.2	750.5	1075.7	1268.7	1004.3	907.8	904.2
85°	528.9	557.5	629.0	518.2	411.0	461.0	789.8	911.3	757.7	668.3	682.6
87.5°	143.0	196.6	289.5	268.0	185.8	196.6	375.3	503.9	436.0	335.9	346.7
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)