

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: P942974

Luminaire Tested: **GALN-SB7B-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27124 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 256.7
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



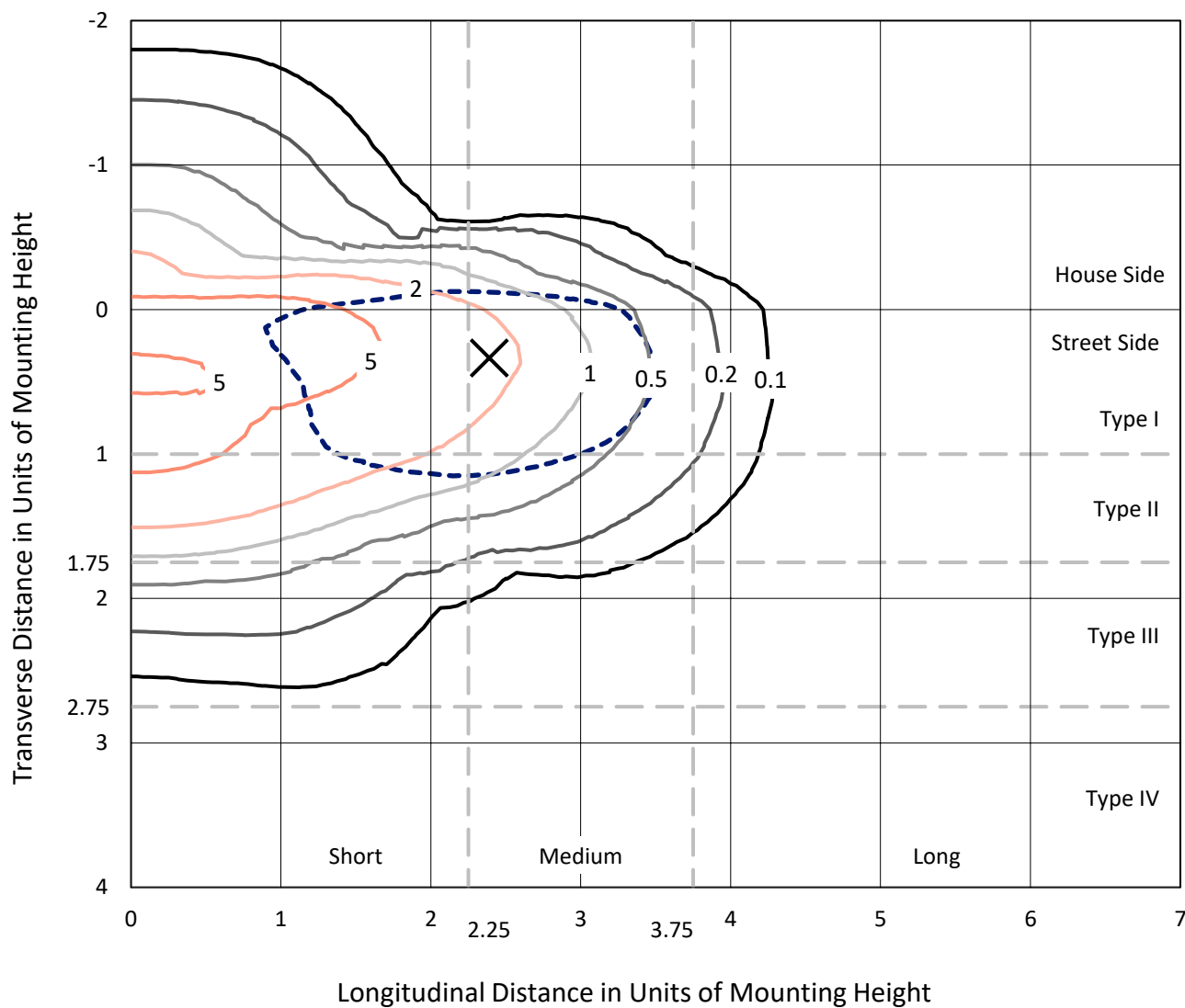
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Iso-Footcandle Lines of Horizontal Illumination

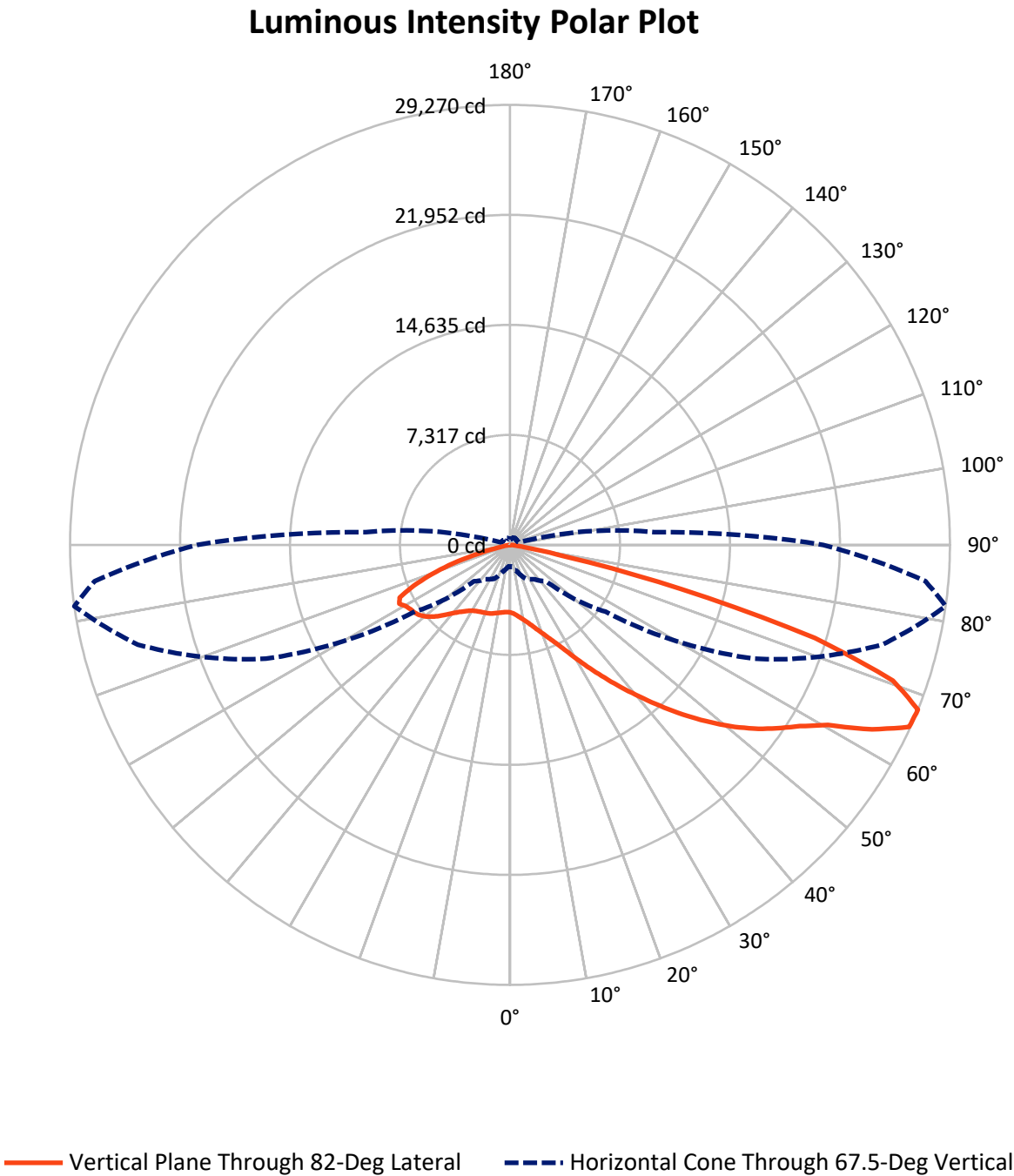
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4913.3	0.0	4913.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22210.7	0.0	22210.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	27124.0	0.0	27124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	1.5
10°-20°	1040.3	3.8
20°-30°	1666.3	6.1
30°-40°	2946.5	10.9
40°-50°	5162.5	19.0
50°-60°	6885.3	25.4
60°-70°	6409.9	23.6
70°-80°	2460.1	9.1
80°-90°	152.8	0.6
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°	27124.0	100.0
0°-180°	27124.0	100.0

Coefficient of Utilization



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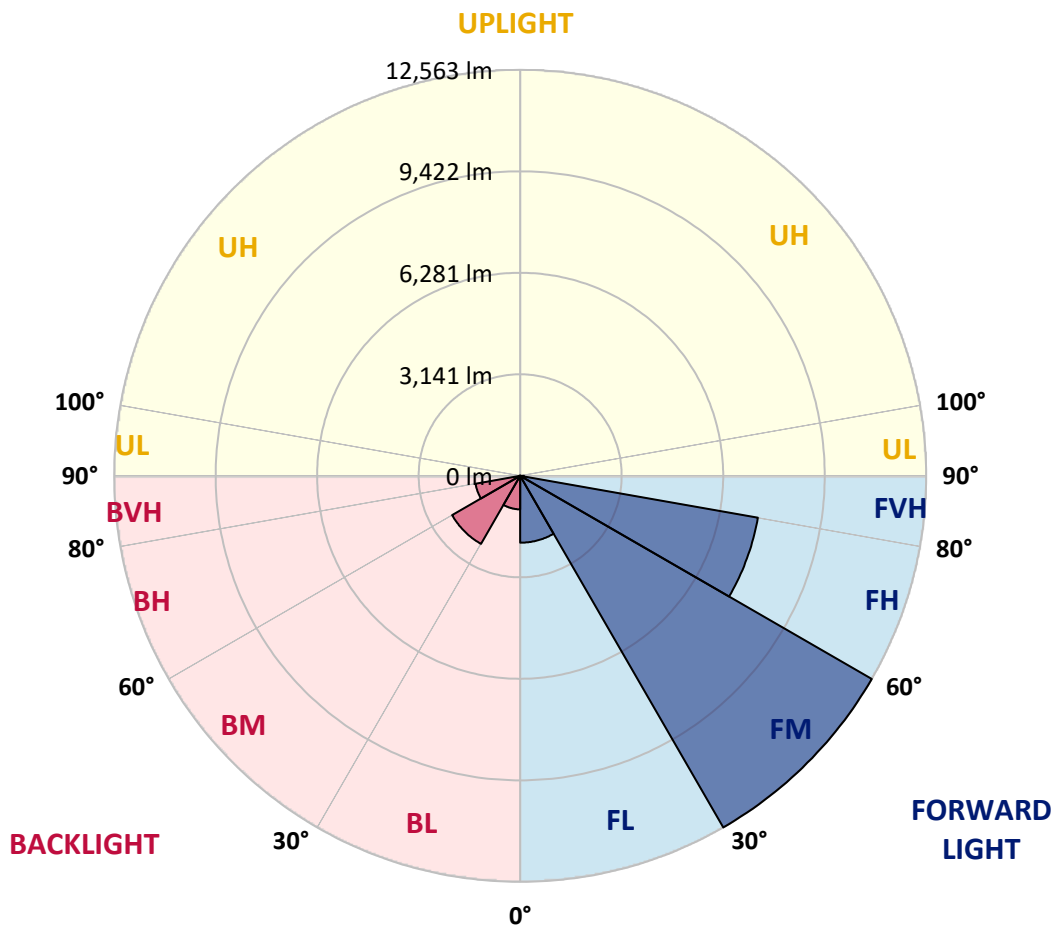
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2069.3	7.6			
FM	(30°-60°)	12562.7	46.3			
FH	(60°-80°)	7467.6	27.5			G3/7500
FVH	(80°-90°)	111.1	0.4			G2/225
BL	(0°-30°)	1037.7	3.8	B3/2500		
BM	(30°-60°)	2431.6	9.0	B2/2500		
BH	(60°-80°)	1402.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	41.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	4749.4	4776.7	4761.1	4753.3	4739.6	4720.1	4704.4	4655.6	4604.8	4571.6	4559.9
5°	4845.0	4872.4	4870.4	4878.2	4888.0	4893.9	4890.0	4835.3	4763.0	4706.4	4673.2
7.5°	4763.0	4794.3	4819.7	4858.7	4927.1	4999.3	5034.5	5022.8	4948.5	4870.4	4829.4
10°	4530.6	4563.8	4624.4	4716.2	4860.7	5016.9	5147.7	5208.3	5161.4	5075.5	5018.8
12.5°	4104.9	4138.1	4257.2	4456.4	4698.6	4970.0	5220.0	5382.1	5393.8	5307.9	5241.5
15°	3626.5	3659.7	3786.6	4036.6	4405.7	4841.1	5259.0	5565.6	5669.2	5594.9	5514.9
17.5°	3329.6	3358.9	3454.6	3655.8	4040.5	4583.4	5245.4	5760.9	5997.2	5938.6	5843.0
20°	3239.8	3265.2	3310.1	3450.7	3771.0	4315.8	5155.5	5944.5	6350.7	6317.5	6210.1
22.5°	3335.5	3358.9	3372.6	3435.1	3636.2	4140.1	5042.3	6132.0	6760.8	6764.7	6633.9
25°	3556.2	3579.6	3564.0	3603.0	3690.9	4085.4	4999.3	6352.7	7276.4	7319.3	7170.9
27.5°	3919.4	3921.3	3884.2	3882.3	3896.0	4167.4	5044.2	6588.9	7926.7	8006.7	7823.2
30°	4647.8	4618.5	4476.0	4321.7	4251.4	4413.5	5169.2	6868.2	8694.1	8836.7	8606.3
32.5°	5770.7	5727.7	5466.1	5097.0	4725.9	4809.9	5393.8	7186.5	9530.0	9787.7	9506.5
35°	6989.3	6977.6	6704.2	6155.4	5507.1	5374.3	5759.0	7604.4	10441.9	10852.0	10518.1
37.5°	8121.9	8116.1	7959.9	7313.5	6524.5	6161.3	6344.8	8151.2	11418.4	12012.0	11617.6
40°	9157.0	9174.5	9018.3	8440.3	7645.4	7170.9	7141.6	8826.9	12504.2	13275.5	12806.9
42.5°	10051.4	10070.9	9912.7	9485.0	8752.7	8287.9	8120.0	9654.9	13564.6	14632.8	14078.2
45°	10658.7	10779.8	10756.3	10414.6	9889.3	9406.9	9295.6	10693.9	14773.4	16072.0	15421.7
47.5°	10830.6	10941.9	11117.6	11164.5	10844.2	10369.7	10502.5	11945.6	15995.9	17513.2	16773.1
50°	10406.8	10510.3	10875.5	11361.7	11584.4	11437.9	11676.1	13287.3	17247.7	18950.5	18099.1
52.5°	9571.0	9676.4	10137.3	10906.7	11814.8	12275.7	12853.7	14609.3	18460.4	20311.7	19354.8
55°	8362.1	8473.5	9065.2	9936.1	11375.4	12621.3	13836.0	15929.5	19571.6	21536.1	20487.4
57.5°	6717.8	6799.9	7415.0	8633.6	10270.1	12277.6	14560.5	17370.7	20618.3	22739.1	21610.3
60°	4378.3	4450.6	5165.3	6524.5	8438.3	11129.3	14705.0	18977.9	22008.7	24303.3	23123.8
62.5°	2911.7	2960.5	3384.3	4382.2	5942.6	8924.6	13859.4	20260.9	24047.5	27025.6	25719.2
65°	1997.8	2046.6	2470.4	3165.6	3839.3	5903.5	11428.1	20091.0	25894.9	29187.4	27642.7
67.5°	1425.6	1466.6	1825.9	2482.1	2778.9	3429.2	7747.0	17919.4	25629.3	29269.5	27746.2
70°	1021.3	1044.8	1341.6	1933.3	2208.7	2060.3	4308.0	13705.2	22440.3	27027.6	25633.2
72.5°	714.7	722.6	931.5	1472.5	1779.1	1503.7	2050.5	9137.4	16972.3	21213.9	19872.3
75°	484.3	494.1	626.9	1079.9	1427.5	1148.3	1085.8	4899.7	9963.5	11742.5	10525.9
77.5°	296.8	300.7	404.2	738.2	1068.2	874.9	699.1	2075.9	3854.9	3784.6	3226.1
80°	167.9	167.9	257.8	458.9	728.4	564.4	490.2	882.7	1220.5	1072.1	945.2
82.5°	93.7	95.7	187.5	285.1	482.4	333.9	269.5	408.1	527.3	466.7	406.2
85°	39.1	43.0	115.2	134.7	230.4	166.0	109.4	171.9	195.3	173.8	126.9
87.5°	3.9	5.9	35.2	25.4	27.3	33.2	15.6	33.2	27.3	27.3	19.5
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°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	4522.8	4493.5	4419.3	4333.4	4220.1	4165.4	4091.2	4040.5	3997.5	4001.4	3962.4
5°	4610.7	4536.5	4370.5	4163.5	3905.7	3722.1	3526.9	3392.1	3282.8	3259.3	3206.6
7.5°	4731.8	4614.6	4323.6	3950.6	3515.1	3185.1	2890.2	2700.8	2566.1	2523.1	2480.1
10°	4888.0	4718.1	4263.1	3683.1	3056.2	2636.4	2320.0	2171.6	2079.8	2048.5	2025.1
12.5°	5069.6	4837.2	4183.0	3357.0	2583.6	2179.4	1978.2	1904.0	1874.7	1865.0	1859.1
15°	5298.1	4985.6	4061.9	2970.3	2183.3	1900.1	1814.2	1804.4	1808.3	1804.4	1802.5
17.5°	5569.6	5147.7	3864.7	2571.9	1913.8	1757.6	1726.3	1734.1	1743.9	1742.0	1738.0
20°	5866.4	5307.9	3612.8	2218.4	1730.2	1656.0	1638.4	1646.3	1654.1	1650.2	1648.2
22.5°	6204.2	5479.7	3333.5	1943.1	1607.2	1562.3	1542.8	1544.7	1544.7	1536.9	1533.0
25°	6608.5	5669.2	3040.6	1747.8	1513.5	1478.3	1454.9	1447.1	1435.4	1411.9	1408.0
27.5°	7090.8	5870.3	2759.4	1611.1	1439.3	1406.1	1378.7	1359.2	1329.9	1290.8	1286.9
30°	7633.7	6114.4	2521.1	1525.2	1380.7	1347.5	1316.2	1286.9	1244.0	1195.1	1191.2
32.5°	8272.3	6376.1	2347.3	1468.6	1327.9	1292.8	1255.7	1220.5	1173.7	1124.8	1126.8
35°	9033.9	6692.4	2245.8	1429.5	1286.9	1240.1	1199.1	1160.0	1124.8	1081.9	1078.0
37.5°	9860.0	7028.3	2214.5	1410.0	1259.6	1187.3	1140.5	1113.1	1109.2	1083.8	1081.9
40°	10764.2	7426.7	2238.0	1398.2	1230.3	1136.6	1085.8	1079.9	1089.7	1044.8	1046.7
42.5°	11721.1	7899.3	2277.0	1384.6	1189.3	1085.8	1037.0	1037.0	1029.2	966.7	966.7
45°	12756.1	8444.2	2316.1	1351.4	1140.5	1035.0	997.9	984.2	951.0	890.5	888.6
47.5°	13798.9	8998.8	2345.4	1290.8	1081.9	992.1	958.9	927.6	878.8	824.1	822.2
50°	14789.0	9496.8	2314.1	1201.0	1015.5	951.0	915.9	872.9	820.2	783.1	777.2
52.5°	15673.6	9928.3	2181.3	1095.6	945.2	908.1	876.8	831.9	789.0	749.9	746.0
55°	16443.1	10277.9	1947.0	996.0	882.7	871.0	839.7	783.1	724.5	691.3	687.4
57.5°	17181.3	10543.5	1654.1	913.9	826.1	830.0	783.1	732.3	677.6	642.5	638.6
60°	18163.5	10898.9	1357.2	837.8	765.5	777.2	726.5	689.4	621.0	576.1	570.2
62.5°	19733.6	11451.6	1078.0	744.0	695.2	699.1	677.6	632.7	550.7	498.0	494.1
65°	20979.6	11248.5	849.5	642.5	615.2	621.0	621.0	572.2	484.3	423.8	417.9
67.5°	20839.0	9631.5	677.6	542.9	539.0	542.9	556.6	515.6	429.6	380.8	373.0
70°	19196.6	7661.1	542.9	451.1	468.7	458.9	498.0	470.6	386.7	337.8	332.0
72.5°	15663.9	5518.8	414.0	373.0	359.3	374.9	449.2	423.8	322.2	267.5	261.7
75°	9153.1	2944.9	308.6	294.9	259.7	312.5	398.4	361.3	246.1	197.2	191.4
77.5°	2980.1	1027.2	226.5	216.8	193.3	251.9	339.8	304.6	201.1	156.2	150.4
80°	798.7	310.5	154.3	142.6	125.0	187.5	269.5	242.2	144.5	101.5	99.6
82.5°	320.3	130.8	89.8	80.1	68.4	128.9	212.9	195.3	107.4	64.4	64.4
85°	103.5	43.0	33.2	25.4	31.2	80.1	126.9	132.8	76.2	33.2	25.4
87.5°	13.7	5.9	5.9	7.8	5.9	13.7	39.1	37.1	21.5	3.9	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)