

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: P941774

Luminaire Tested: **GALN-SB5C-722-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941774  
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-SB5C-722-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

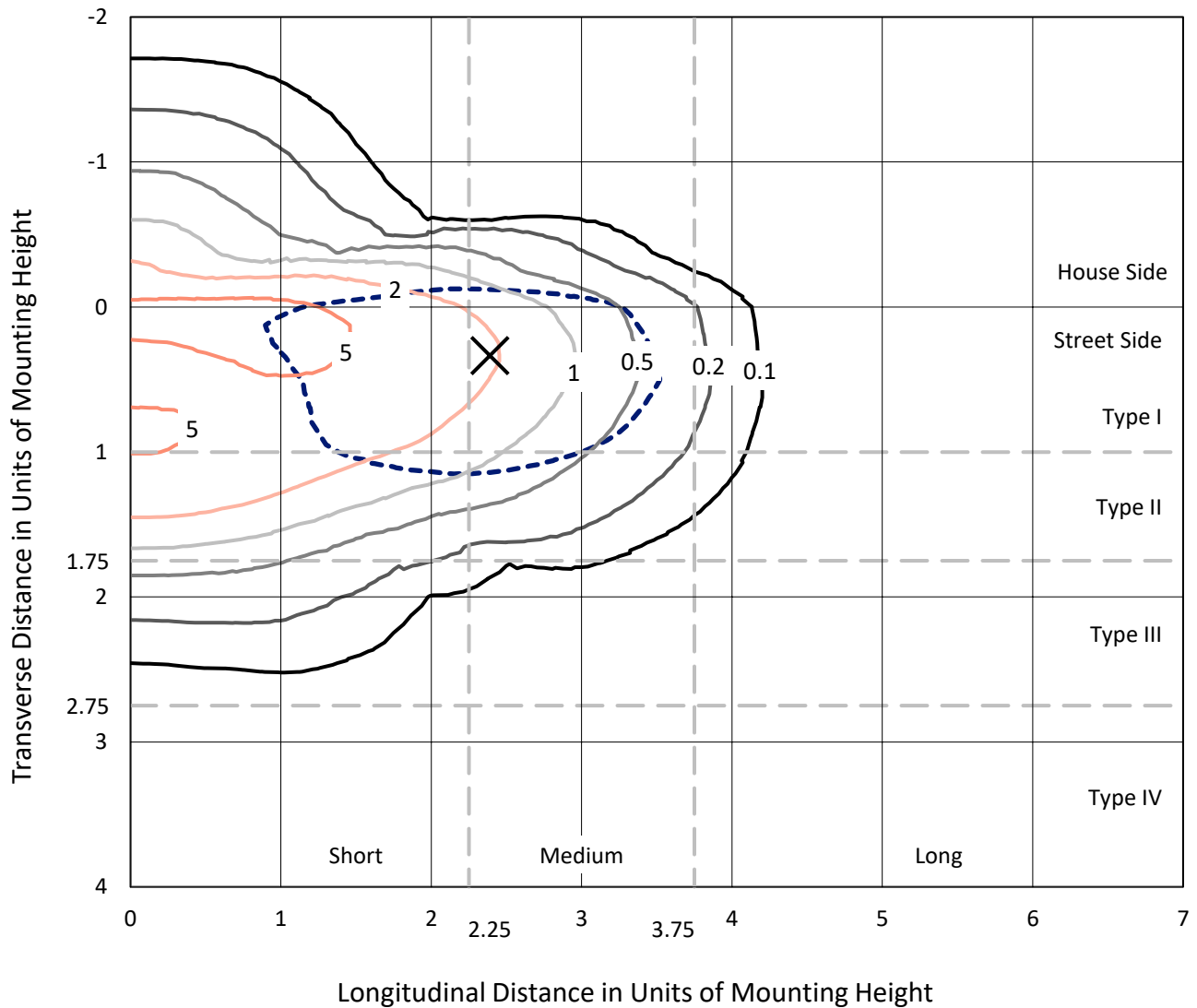
Lumens per Lamp: N/A  
Luminaire Lumens: 22821 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

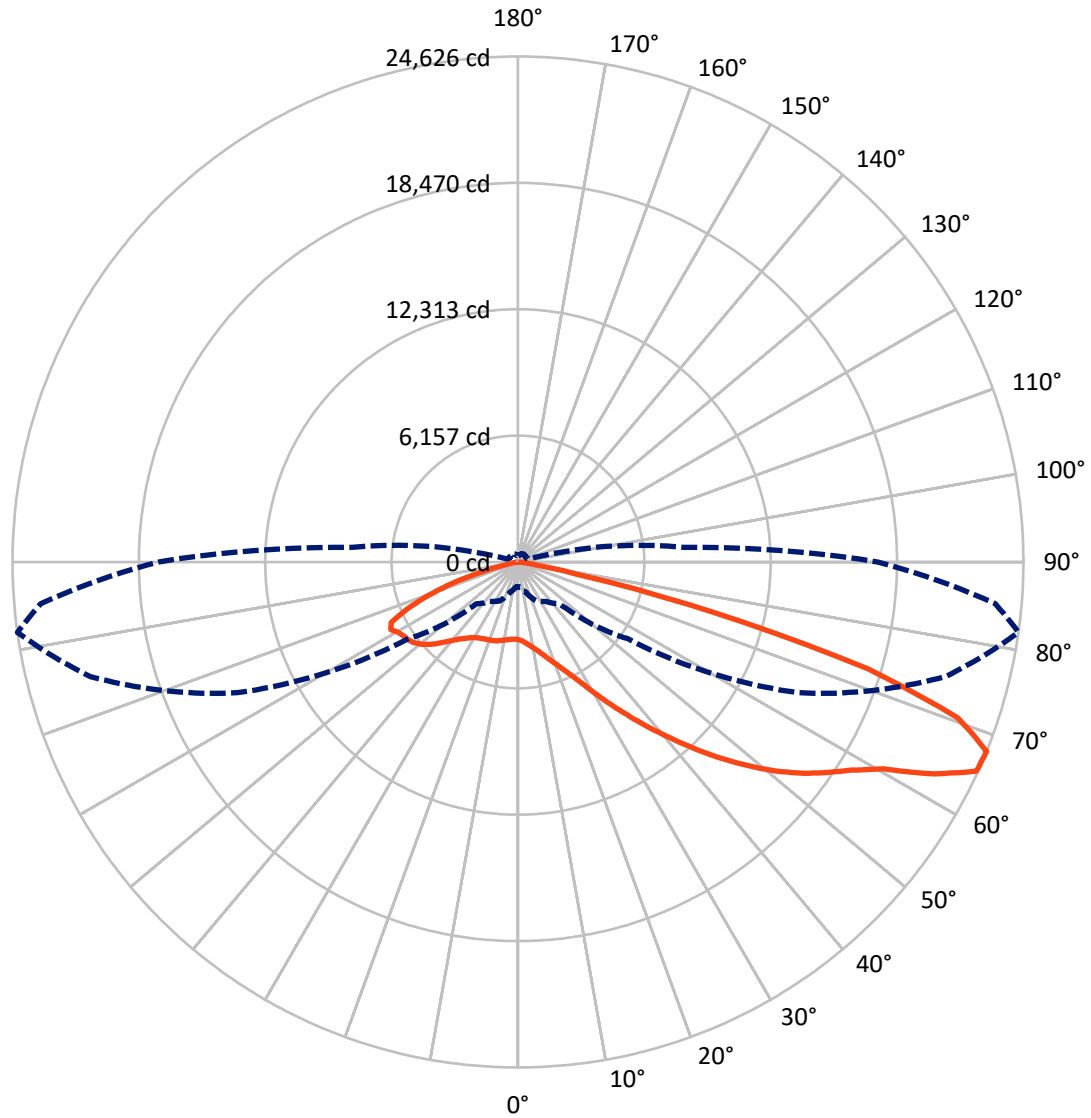
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4133.8	0.0	4133.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	18687.2	0.0	18687.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	22821.0	0.0	22821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.8	1.5
10°-20°	875.3	3.8
20°-30°	1401.9	6.1
30°-40°	2479.0	10.9
40°-50°	4343.5	19.0
50°-60°	5793.0	25.4
60°-70°	5393.0	23.6
70°-80°	2069.8	9.1
80°-90°	128.6	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°	22821.0	100.0
0°-180°	22821.0	100.0

**Coefficient of Utilization**



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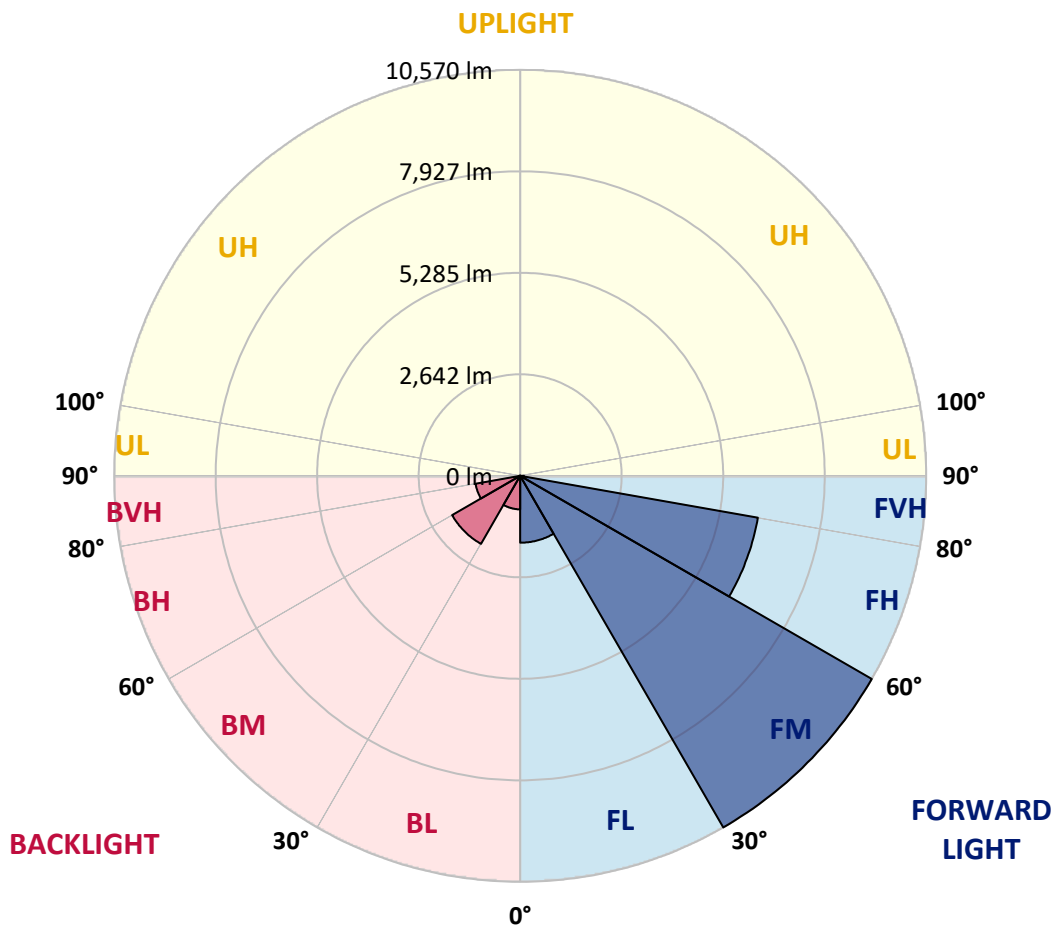
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.0	7.6			
FM (30°-60°)	10569.8	46.3			
FH (60°-80°)	6283.0	27.5			G3/7500
FVH (80°-90°)	93.5	0.4			G1/100
BL (0°-30°)	873.1	3.8	B2/1000		
BM (30°-60°)	2045.8	9.0	B2/2500		
BH (60°-80°)	1179.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.1	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°	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7
2.5°	3995.9	4018.9	4005.8	3999.2	3987.7	3971.3	3958.1	3917.0	3874.3	3846.4	3836.5
5°	4076.4	4099.4	4097.8	4104.3	4112.6	4117.5	4114.2	4068.2	4007.4	3959.8	3931.8
7.5°	4007.4	4033.7	4055.1	4087.9	4145.4	4206.2	4235.8	4225.9	4163.5	4097.8	4063.3
10°	3811.9	3839.8	3890.8	3968.0	4089.6	4221.0	4331.1	4382.0	4342.6	4270.3	4222.6
12.5°	3453.7	3481.6	3581.9	3749.4	3953.2	4181.6	4391.9	4528.3	4538.1	4465.8	4410.0
15°	3051.2	3079.1	3185.9	3396.2	3706.7	4073.1	4424.7	4682.7	4769.8	4707.3	4640.0
17.5°	2801.4	2826.1	2906.6	3075.8	3399.5	3856.2	4413.2	4847.0	5045.8	4996.5	4916.0
20°	2725.8	2747.2	2785.0	2903.3	3172.7	3631.1	4337.7	5001.5	5343.2	5315.3	5224.9
22.5°	2806.3	2826.1	2837.6	2890.1	3059.4	3483.3	4242.4	5159.2	5688.3	5691.5	5581.5
25°	2992.0	3011.7	2998.6	3031.4	3105.4	3437.3	4206.2	5344.9	6122.0	6158.2	6033.3
27.5°	3297.6	3299.3	3268.0	3266.4	3277.9	3506.3	4244.0	5543.7	6669.2	6736.5	6582.1
30°	3910.5	3885.8	3765.9	3636.1	3576.9	3713.3	4349.2	5778.6	7314.9	7434.8	7240.9
32.5°	4855.2	4819.1	4598.9	4288.4	3976.2	4046.8	4538.1	6046.4	8018.1	8235.0	7998.4
35°	5880.5	5870.6	5640.6	5178.9	4633.4	4521.7	4845.4	6398.1	8785.4	9130.5	8849.5
37.5°	6833.5	6828.5	6697.1	6153.2	5489.4	5183.8	5338.3	6858.1	9606.9	10106.4	9774.5
40°	7704.3	7719.1	7587.6	7101.3	6432.6	6033.3	6008.6	7426.6	10520.5	11169.5	10775.1
42.5°	8456.8	8473.2	8340.1	7980.3	7364.2	6973.1	6831.8	8123.3	11412.7	12311.4	11844.8
45°	8967.8	9069.7	9049.9	8762.4	8320.4	7914.6	7820.9	8997.4	12429.7	13522.3	12975.2
47.5°	9112.4	9206.0	9353.9	9393.3	9123.9	8724.6	8836.3	10050.6	13458.3	14734.9	14112.2
50°	8755.8	8842.9	9150.2	9559.3	9746.6	9623.4	9823.8	11179.3	14511.5	15944.2	15227.8
52.5°	8052.6	8141.3	8529.1	9176.5	9940.5	10328.2	10814.6	12291.7	15531.8	17089.4	16284.3
55°	7035.6	7129.2	7627.1	8359.9	9570.8	10619.1	11641.0	13402.4	16466.7	18119.6	17237.3
57.5°	5652.1	5721.1	6238.7	7263.9	8640.8	10329.9	12250.6	14615.0	17347.4	19131.7	18182.0
60°	3683.7	3744.5	4345.9	5489.4	7099.6	9363.8	12372.2	15967.2	18517.2	20447.8	19455.4
62.5°	2449.8	2490.9	2847.4	3687.0	4999.8	7508.8	11660.8	17046.7	20232.6	22738.2	21639.0
65°	1680.8	1721.9	2078.5	2663.4	3230.2	4967.0	9615.2	16903.7	21786.9	24557.1	23257.4
67.5°	1199.4	1233.9	1536.3	2088.3	2338.1	2885.2	6518.0	15076.7	21563.4	24626.1	23344.5
70°	859.3	879.0	1128.8	1626.6	1858.3	1733.4	3624.6	11531.0	18880.3	22739.9	21566.7
72.5°	601.4	607.9	783.7	1238.9	1496.8	1265.2	1725.2	7687.8	14279.8	17848.5	16719.7
75°	407.5	415.7	527.4	908.6	1201.1	966.1	913.5	4122.4	8382.9	9879.7	8856.1
77.5°	249.7	253.0	340.1	621.1	898.8	736.1	588.2	1746.6	3243.4	3184.2	2714.3
80°	141.3	141.3	216.9	386.1	612.9	474.8	412.4	742.7	1026.9	902.0	795.2
82.5°	78.9	80.5	157.7	239.9	405.8	281.0	226.7	343.4	443.6	392.7	341.8
85°	32.9	36.1	96.9	113.4	193.9	139.7	92.0	144.6	164.3	146.2	106.8
87.5°	3.3	4.9	29.6	21.4	23.0	27.9	13.1	27.9	23.0	23.0	16.4
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°	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7
2.5°	3805.3	3780.7	3718.2	3645.9	3550.6	3504.6	3442.2	3399.5	3363.3	3366.6	3333.8
5°	3879.3	3816.8	3677.2	3503.0	3286.1	3131.7	2967.4	2854.0	2762.0	2742.3	2697.9
7.5°	3981.1	3882.5	3637.7	3323.9	2957.5	2679.8	2431.7	2272.3	2159.0	2122.8	2086.7
10°	4112.6	3969.6	3586.8	3098.8	2571.4	2218.1	1951.9	1827.1	1749.9	1723.6	1703.8
12.5°	4265.4	4069.8	3519.4	2824.4	2173.8	1833.6	1664.4	1602.0	1577.3	1569.1	1564.2
15°	4457.6	4194.7	3417.6	2499.1	1836.9	1598.7	1526.4	1518.2	1521.5	1518.2	1516.5
17.5°	4686.0	4331.1	3251.6	2163.9	1610.2	1478.7	1452.5	1459.0	1467.2	1465.6	1462.3
20°	4935.7	4465.8	3039.7	1866.5	1455.7	1393.3	1378.5	1385.1	1391.7	1388.4	1386.7
22.5°	5220.0	4610.4	2804.7	1634.8	1352.2	1314.4	1298.0	1299.7	1299.7	1293.1	1289.8
25°	5560.1	4769.8	2558.2	1470.5	1273.4	1243.8	1224.1	1217.5	1207.6	1187.9	1184.6
27.5°	5965.9	4939.0	2321.6	1355.5	1210.9	1183.0	1160.0	1143.6	1118.9	1086.1	1082.8
30°	6422.7	5144.4	2121.2	1283.2	1161.6	1133.7	1107.4	1082.8	1046.6	1005.5	1002.3
32.5°	6960.0	5364.6	1975.0	1235.6	1117.3	1087.7	1056.5	1026.9	987.5	946.4	948.0
35°	7600.8	5630.7	1889.5	1202.7	1082.8	1043.3	1008.8	976.0	946.4	910.3	907.0
37.5°	8295.8	5913.4	1863.2	1186.3	1059.8	999.0	959.5	936.5	933.3	911.9	910.3
40°	9056.5	6248.5	1882.9	1176.4	1035.1	956.3	913.5	908.6	916.8	879.0	880.7
42.5°	9861.6	6646.2	1915.8	1164.9	1000.6	913.5	872.5	872.5	865.9	813.3	813.3
45°	10732.4	7104.6	1948.7	1137.0	959.5	870.8	839.6	828.1	800.2	749.2	747.6
47.5°	11609.8	7571.2	1973.3	1086.1	910.3	834.7	806.7	780.5	739.4	693.4	691.7
50°	12442.8	7990.2	1947.0	1010.5	854.4	800.2	770.6	734.4	690.1	658.9	653.9
52.5°	13187.2	8353.3	1835.3	921.8	795.2	764.0	737.7	699.9	663.8	630.9	627.6
55°	13834.5	8647.4	1638.1	838.0	742.7	732.8	706.5	658.9	609.6	581.6	578.4
57.5°	14455.6	8870.8	1391.7	768.9	695.0	698.3	658.9	616.1	570.1	540.6	537.3
60°	15282.0	9169.9	1141.9	704.9	644.1	653.9	611.2	580.0	522.5	484.7	479.8
62.5°	16603.1	9634.9	907.0	626.0	584.9	588.2	570.1	532.3	463.3	419.0	415.7
65°	17651.3	9464.0	714.7	540.6	517.6	522.5	522.5	481.4	407.5	356.5	351.6
67.5°	17533.0	8103.5	570.1	456.8	453.5	456.8	468.3	433.8	361.5	320.4	313.8
70°	16151.2	6445.7	456.8	379.5	394.3	386.1	419.0	396.0	325.3	284.2	279.3
72.5°	13178.9	4643.3	348.3	313.8	302.3	315.5	377.9	356.5	271.1	225.1	220.2
75°	7701.0	2477.7	259.6	248.1	218.5	262.9	335.2	304.0	207.0	165.9	161.0
77.5°	2507.3	864.2	190.6	182.4	162.7	212.0	285.9	256.3	169.2	131.4	126.5
80°	672.0	261.2	129.8	119.9	105.2	157.7	226.7	203.7	121.6	85.4	83.8
82.5°	269.5	110.1	75.6	67.4	57.5	108.4	179.1	164.3	90.4	54.2	54.2
85°	87.1	36.1	27.9	21.4	26.3	67.4	106.8	111.7	64.1	27.9	21.4
87.5°	11.5	4.9	4.9	6.6	4.9	11.5	32.9	31.2	18.1	3.3	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)