

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: P951640

Luminaire Tested: **GALN-SB5D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47390 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

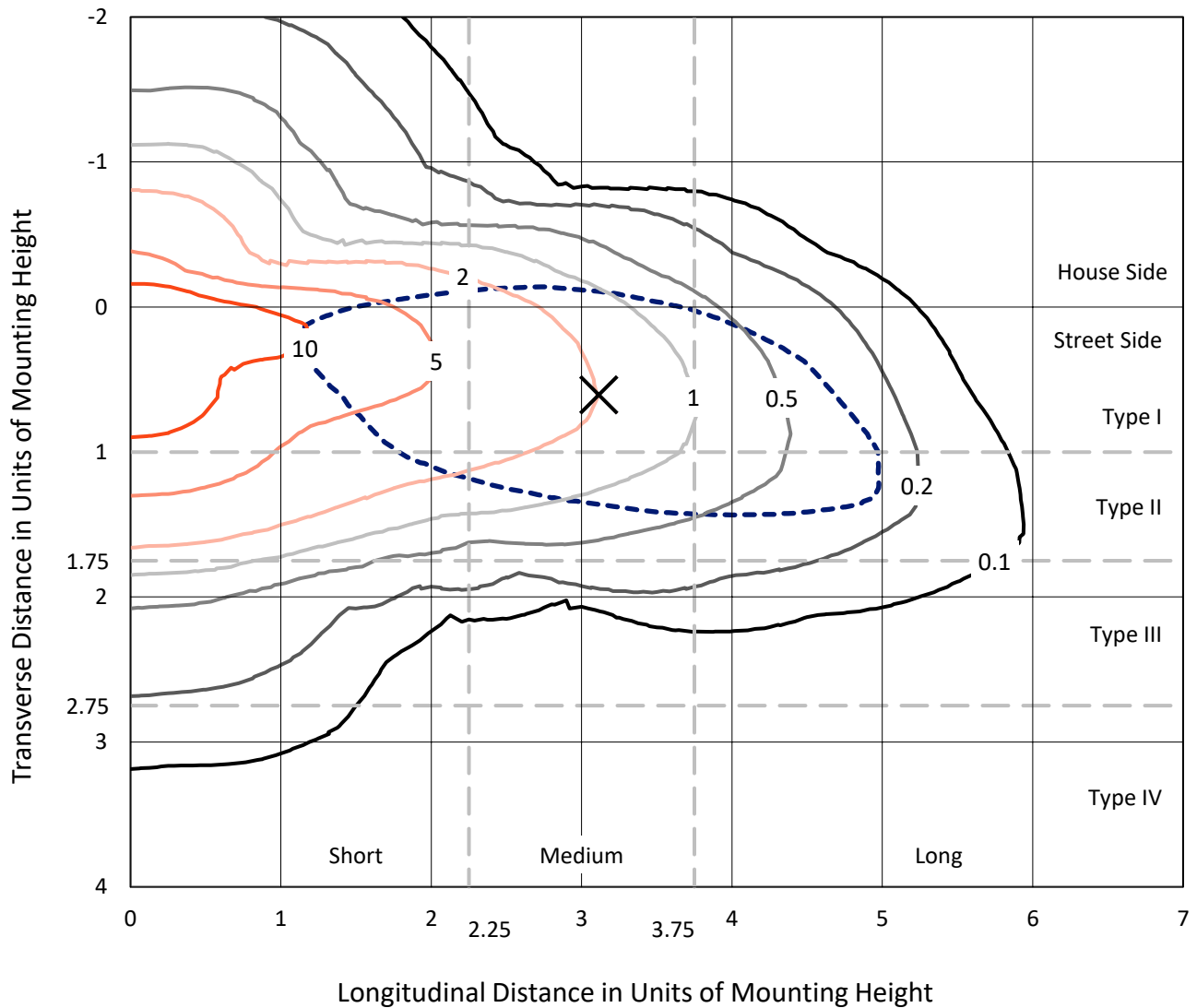
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

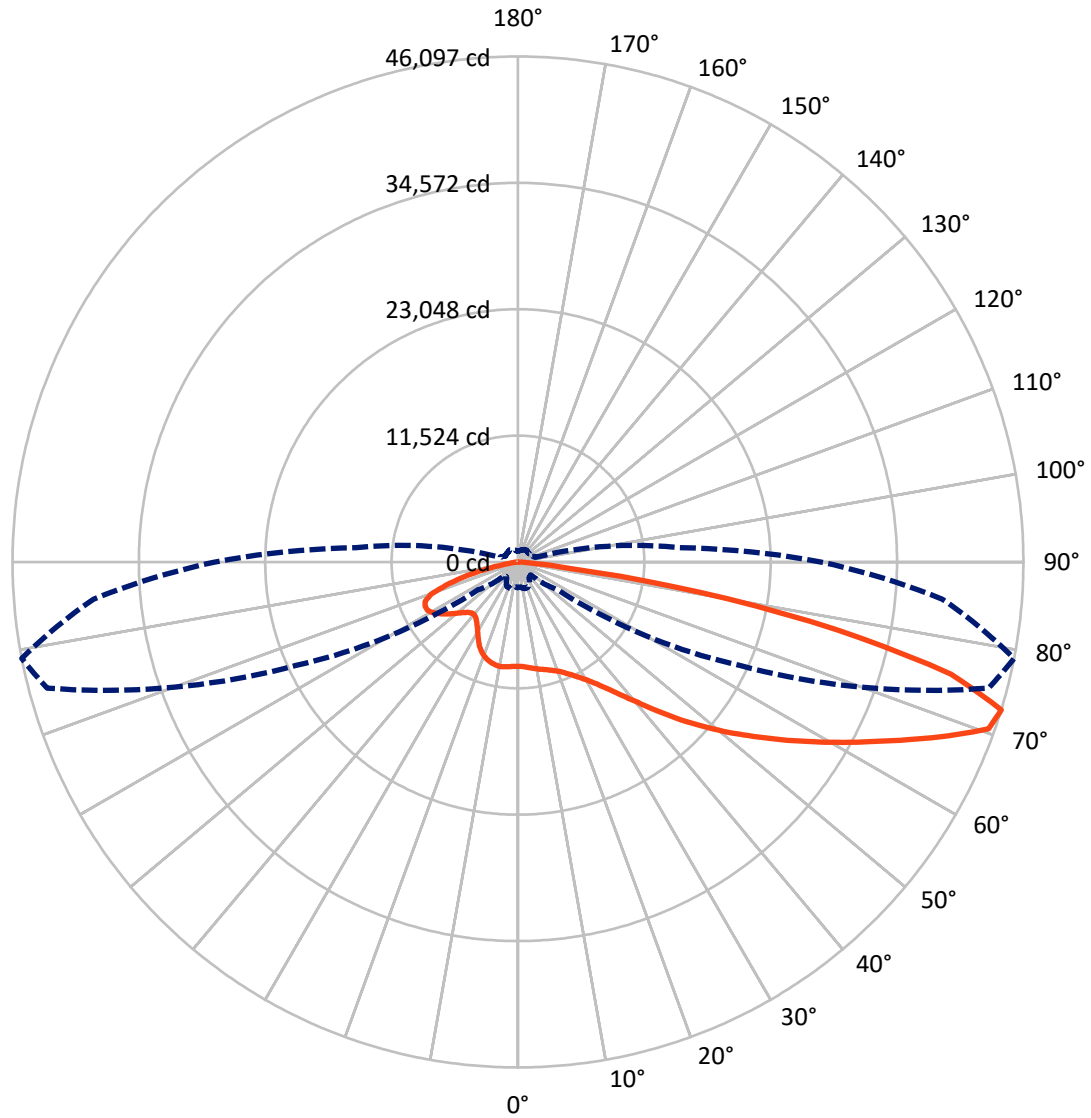
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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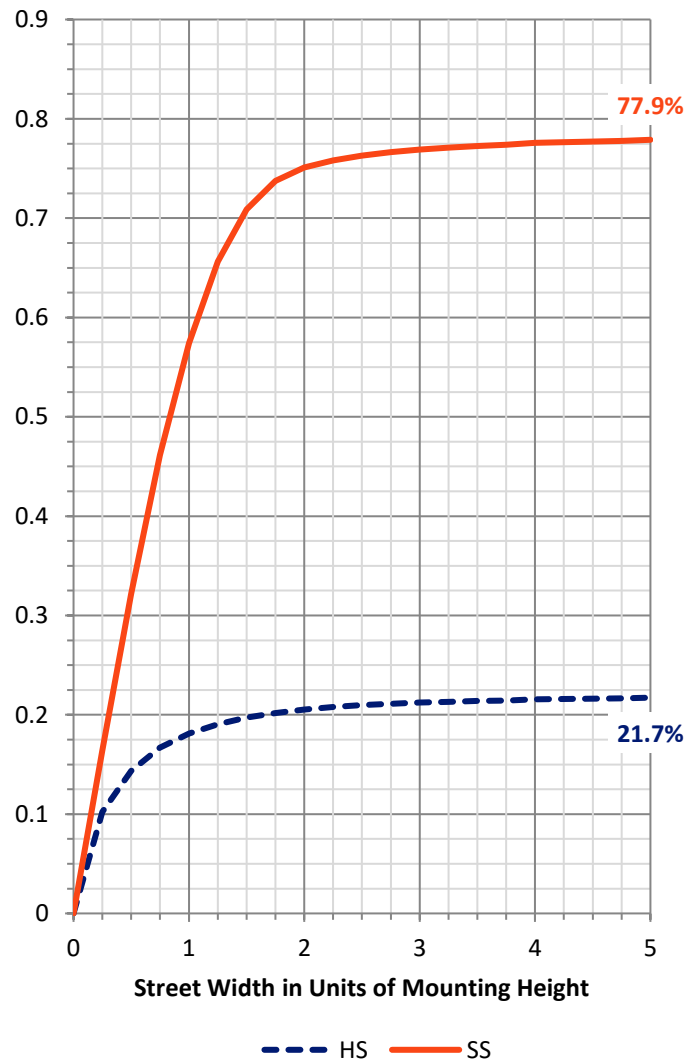
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10428.4	0.0	10428.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	36961.6	0.0	36961.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	47390.0	0.0	47390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.5	1.8
10°-20°	2257.7	4.8
20°-30°	3642.9	7.7
30°-40°	5467.5	11.5
40°-50°	7756.0	16.4
50°-60°	9794.8	20.7
60°-70°	9947.9	21.0
70°-80°	6780.0	14.3
80°-90°	879.6	1.9
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°	47390.0	100.0
0°-180°	47390.0	100.0



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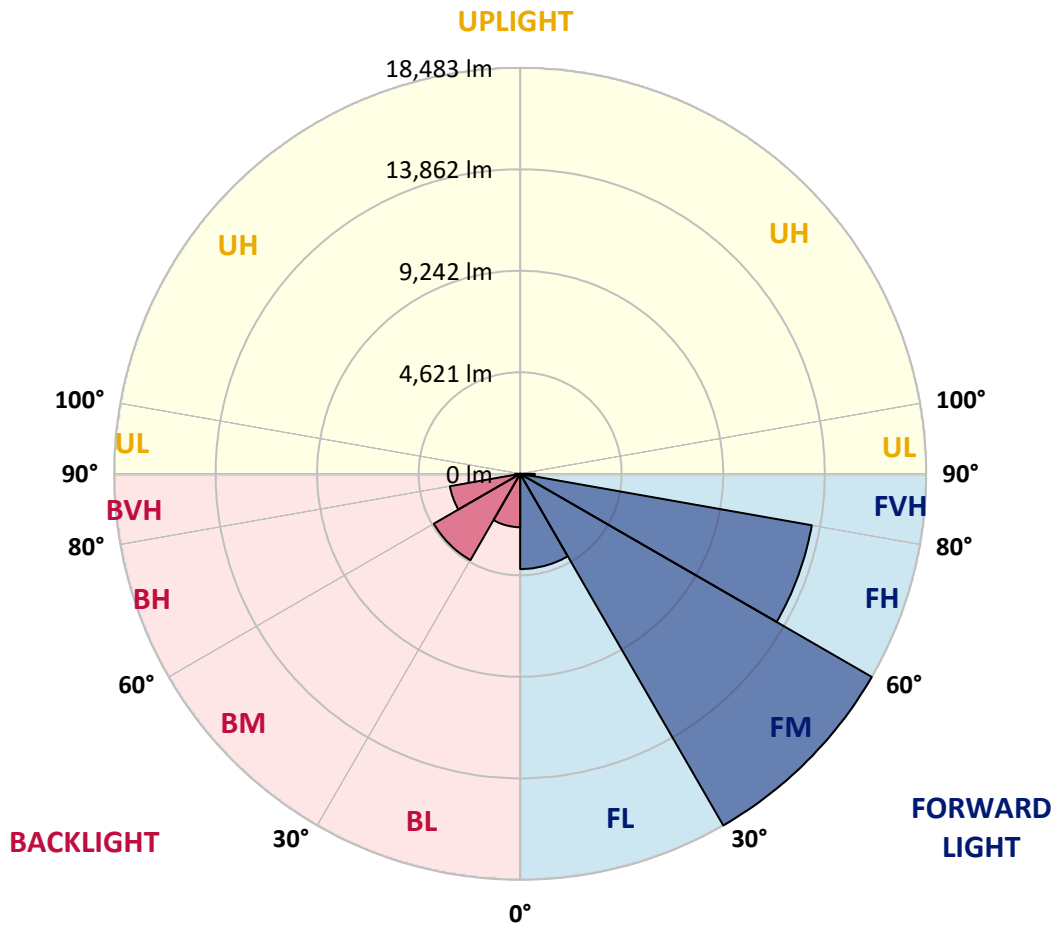
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4335.0	9.1			
FM (30°-60°)	18483.1	39.0			
FH (60°-80°)	13480.9	28.4			G5
FVH (80°-90°)	662.6	1.4			G4/750
BL (0°-30°)	2429.1	5.1	B3/2500		
BM (30°-60°)	4535.3	9.6	B3/5000		
BH (60°-80°)	3247.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	217.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1
2.5°	9518.1	9473.0	9500.6	9490.5	9503.1	9518.1	9523.1	9530.6	9555.7	9553.2	9550.7
5°	9498.1	9452.9	9490.5	9478.0	9510.6	9545.7	9575.8	9603.3	9643.4	9661.0	9635.9
7.5°	9455.4	9425.4	9463.0	9500.6	9560.7	9613.4	9656.0	9718.6	9776.3	9786.3	9803.9
10°	9207.3	9184.7	9272.4	9370.2	9535.7	9678.5	9771.3	9844.0	9906.7	9916.7	9941.7
12.5°	8949.1	8921.5	9019.3	9152.1	9420.3	9678.5	9874.1	9969.3	10024.5	10057.1	10094.7
15°	8906.5	8883.9	8939.0	9054.4	9277.5	9610.9	9944.3	10119.7	10167.4	10205.0	10220.0
17.5°	9112.0	9069.4	9092.0	9132.1	9262.4	9548.2	9999.4	10290.2	10362.9	10403.0	10403.0
20°	9588.3	9528.1	9493.0	9412.8	9390.3	9558.2	9994.4	10495.7	10591.0	10641.1	10653.7
22.5°	10222.5	10182.4	10107.2	9904.1	9683.6	9681.0	10089.6	10758.9	10936.9	10984.6	10954.5
25°	10989.6	10929.4	10834.1	10558.4	10134.8	9924.2	10250.1	11094.8	11393.1	11405.7	11317.9
27.5°	11871.9	11781.7	11651.3	11287.9	10716.3	10305.2	10495.7	11480.9	11917.1	11912.0	11731.6
30°	12801.9	12711.7	12573.8	12132.6	11413.2	10819.1	10836.7	11897.0	12538.7	12511.2	12202.8
32.5°	13481.3	13413.6	13386.0	13045.1	12215.4	11425.7	11227.7	12358.2	13305.8	13280.7	12849.6
35°	14002.7	13914.9	13947.5	13774.6	13090.2	12105.1	11706.5	12907.2	14238.3	14235.8	13699.4
37.5°	14519.1	14441.3	14468.9	14353.6	13899.9	12967.4	12290.6	13579.0	15393.9	15449.1	14727.1
40°	14990.3	14907.6	15017.9	14910.1	14529.1	13884.9	12954.9	14338.6	16732.5	16837.8	15970.5
42.5°	15273.6	15208.4	15391.4	15393.9	15075.6	14659.4	13684.3	15175.8	18281.7	18517.3	17499.6
45°	15371.4	15348.8	15624.5	15682.2	15559.4	15108.1	14341.1	16088.3	19951.2	20372.3	19241.8
47.5°	15266.1	15223.5	15604.5	15817.6	15915.3	15318.7	14885.0	17075.9	21655.8	22272.4	21141.9
50°	14734.6	14651.9	15218.4	15667.1	16015.6	15456.6	15434.0	18216.5	23593.5	24267.8	23052.0
52.5°	13779.6	13716.9	14361.1	15140.7	15795.0	15524.3	16050.7	19462.4	25433.4	26305.8	25009.8
55°	12558.8	12476.1	13185.5	14203.2	15246.0	15501.7	16667.3	20856.1	27604.3	28489.1	27032.7
57.5°	10623.6	10458.1	11355.5	12558.8	14351.1	15474.1	17309.1	22242.3	29810.2	30870.5	29191.0
60°	7801.0	7555.3	8655.8	10082.1	12601.4	15205.9	18103.7	23796.5	32457.3	33412.4	31547.4
62.5°	4542.2	4399.3	5118.8	6449.9	9498.1	13626.7	18549.9	25603.9	35059.3	36062.0	33863.6
65°	3527.0	3486.9	3549.5	3652.3	5286.7	10202.4	17173.7	27366.1	38368.2	39070.1	36277.6
67.5°	3226.2	3196.1	3223.7	3030.7	2682.2	5682.8	13586.6	27812.3	41912.8	42338.9	38390.8
70°	2867.7	2832.6	2922.9	2757.4	2110.7	2584.5	8778.6	26193.0	44732.8	45532.5	39997.6
72.5°	2336.3	2296.2	2506.7	2431.5	1777.3	1659.5	4409.4	22345.1	44437.0	46096.5	38847.0
75°	1794.8	1772.3	2022.9	2085.6	1448.9	1306.0	2115.7	16609.7	39105.2	40777.2	33480.1
77.5°	1393.7	1376.2	1504.0	1732.2	1168.1	1012.7	1301.0	10535.8	29469.3	29762.6	23072.1
80°	1045.3	995.2	1113.0	1341.1	909.9	739.5	882.4	6144.0	18627.6	16885.4	10042.0
82.5°	654.3	629.2	727.0	894.9	641.7	508.9	574.0	3394.1	7465.1	4396.8	1937.7
85°	373.5	363.5	396.1	511.4	348.4	293.3	328.4	1499.0	1363.7	937.5	584.1
87.5°	150.4	145.4	180.5	228.1	127.8	107.8	115.3	361.0	300.8	278.2	193.0
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°	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1	9513.1
2.5°	9540.7	9540.7	9505.6	9450.4	9387.8	9347.6	9282.5	9264.9	9197.2	9177.2	9209.8
5°	9656.0	9635.9	9528.1	9372.7	9159.6	8964.1	8748.5	8613.2	8422.7	8355.0	8405.1
7.5°	9801.4	9746.2	9560.7	9219.8	8773.6	8334.9	7878.7	7532.8	7201.9	7084.1	7099.1
10°	9934.2	9856.5	9540.7	8944.1	8172.0	7412.4	6685.5	6176.6	5790.6	5632.7	5667.7
12.5°	10067.1	9924.2	9407.8	8485.3	7317.2	6286.9	5512.3	5116.3	4878.1	4687.6	4750.3
15°	10192.4	9991.9	9202.3	7871.2	6379.7	5334.4	4762.8	4447.0	4256.5	4131.1	4153.7
17.5°	10337.8	10049.5	8893.9	7091.6	5487.3	4675.1	4208.8	4018.3	3980.7	3965.7	3975.7
20°	10540.9	10102.2	8487.8	6219.2	4830.5	4148.7	3908.0	3890.5	3888.0	3880.4	3905.5
22.5°	10758.9	10164.8	7951.4	5427.1	4271.5	3820.3	3777.7	3742.6	3720.0	3717.5	3745.1
25°	11017.1	10184.9	7279.6	4777.9	3795.2	3664.9	3614.7	3562.1	3547.0	3547.0	3562.1
27.5°	11267.8	10117.2	6497.5	4213.8	3527.0	3522.0	3456.8	3439.3	3436.7	3444.3	3464.3
30°	11518.5	9989.4	5720.4	3692.4	3371.6	3371.6	3349.0	3361.5	3371.6	3396.6	3414.2
32.5°	11856.9	9854.0	5071.1	3306.4	3236.2	3211.1	3233.7	3258.8	3268.8	3301.4	3329.0
35°	12353.2	9758.8	4554.8	3095.8	3095.8	3063.2	3075.8	3070.8	3048.2	3033.2	3068.3
37.5°	13010.0	9753.7	4128.6	2998.1	2978.0	2973.0	2975.5	2942.9	2855.2	2749.9	2752.4
40°	13799.6	9889.1	3800.2	2930.4	2915.3	2945.4	2930.4	2842.6	2602.0	2419.0	2414.0
42.5°	14860.0	10275.1	3589.7	2847.7	2892.8	2930.4	2870.2	2566.9	2404.0	2281.1	2276.1
45°	16108.3	10901.8	3481.9	2759.9	2850.2	2895.3	2604.5	2471.6	2341.3	2193.4	2183.4
47.5°	17522.1	11691.5	3456.8	2677.2	2754.9	2782.5	2491.7	2431.5	2283.6	2123.2	2110.7
50°	19061.3	12626.5	3524.5	2579.4	2617.0	2521.8	2454.1	2399.0	2246.0	2088.1	2070.6
52.5°	20653.1	13656.7	3659.8	2446.6	2479.2	2373.9	2439.1	2391.4	2223.5	2010.4	1995.4
55°	22217.3	14694.5	3790.2	2291.2	2338.8	2241.0	2396.4	2361.4	2120.7	1880.1	1867.5
57.5°	23806.5	15727.3	3918.0	2153.3	2203.4	2113.2	2328.8	2281.1	2005.4	1759.7	1754.7
60°	25458.5	16730.0	3978.2	2020.4	2055.5	1995.4	2226.0	2143.3	1875.0	1636.9	1629.4
62.5°	27005.1	17564.8	3880.4	1887.6	1910.1	1885.1	2090.6	1980.3	1744.7	1499.0	1496.5
65°	28556.8	18061.1	3579.6	1757.2	1762.2	1749.7	1900.1	1804.9	1591.8	1378.7	1363.7
67.5°	29963.1	18339.3	3100.8	1616.8	1604.3	1599.3	1722.1	1614.3	1443.9	1258.4	1243.3
70°	30261.4	17632.4	2368.9	1451.4	1451.4	1438.9	1526.6	1416.3	1280.9	1130.5	1125.5
72.5°	27639.4	14832.4	1682.0	1263.4	1283.5	1258.4	1331.1	1238.3	1115.5	1015.2	985.2
75°	22287.5	10876.8	1223.3	1070.4	1105.5	1062.9	1130.5	1065.4	960.1	957.6	862.3
77.5°	15313.7	6725.6	887.4	882.4	907.4	852.3	930.0	894.9	799.7	757.0	709.4
80°	6535.1	2682.2	646.7	681.8	681.8	631.7	721.9	732.0	649.2	629.2	629.2
82.5°	1301.0	762.1	453.7	468.8	441.2	426.1	511.4	566.5	782.1	869.8	872.3
85°	391.1	280.8	273.2	255.7	225.6	228.1	300.8	569.0	701.9	401.1	345.9
87.5°	107.8	70.2	72.7	57.7	47.6	62.7	102.8	431.2	235.6	100.3	85.2
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)