

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: P944505

Luminaire Tested: **GALN-SB9C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62691 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - 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



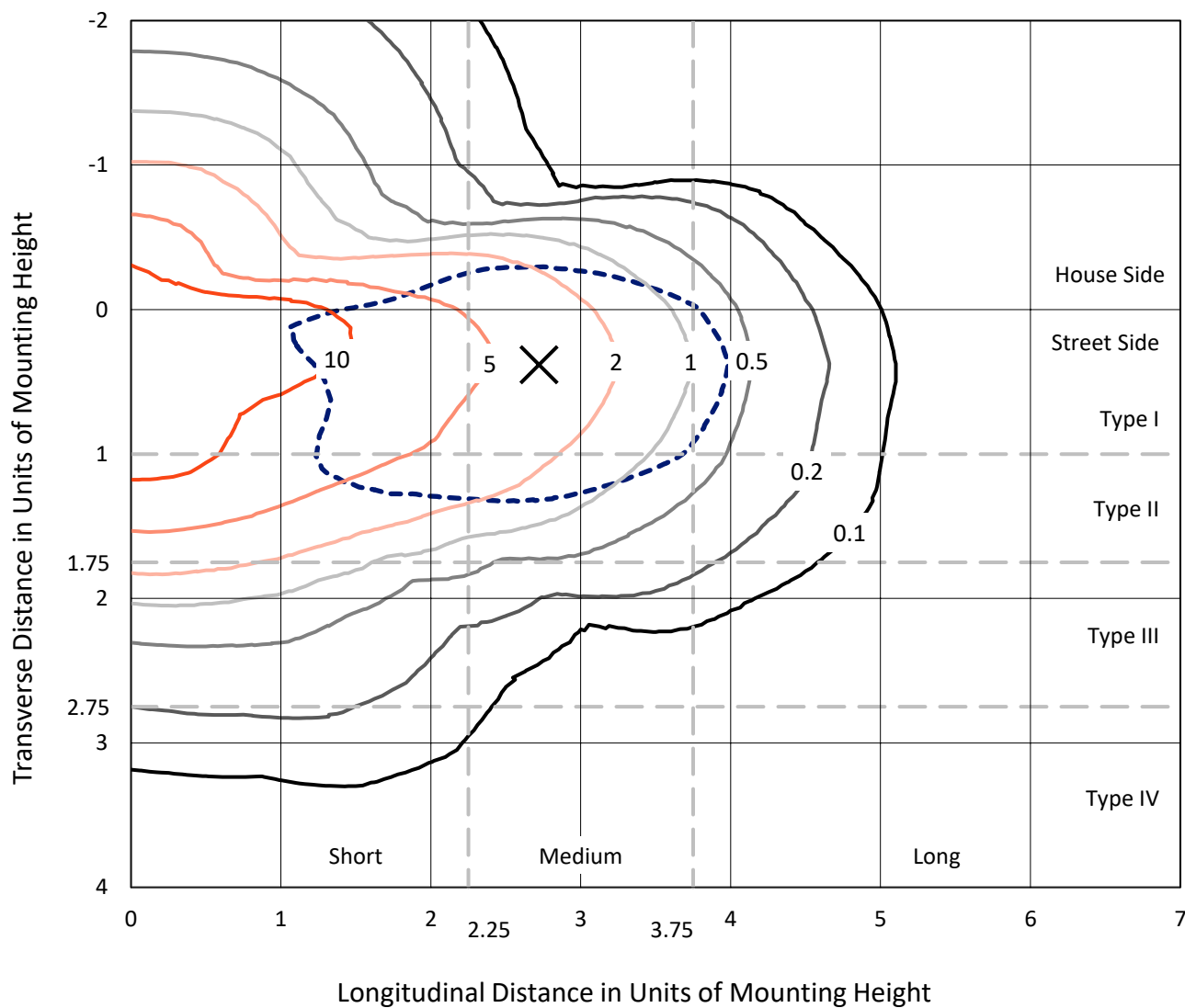
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

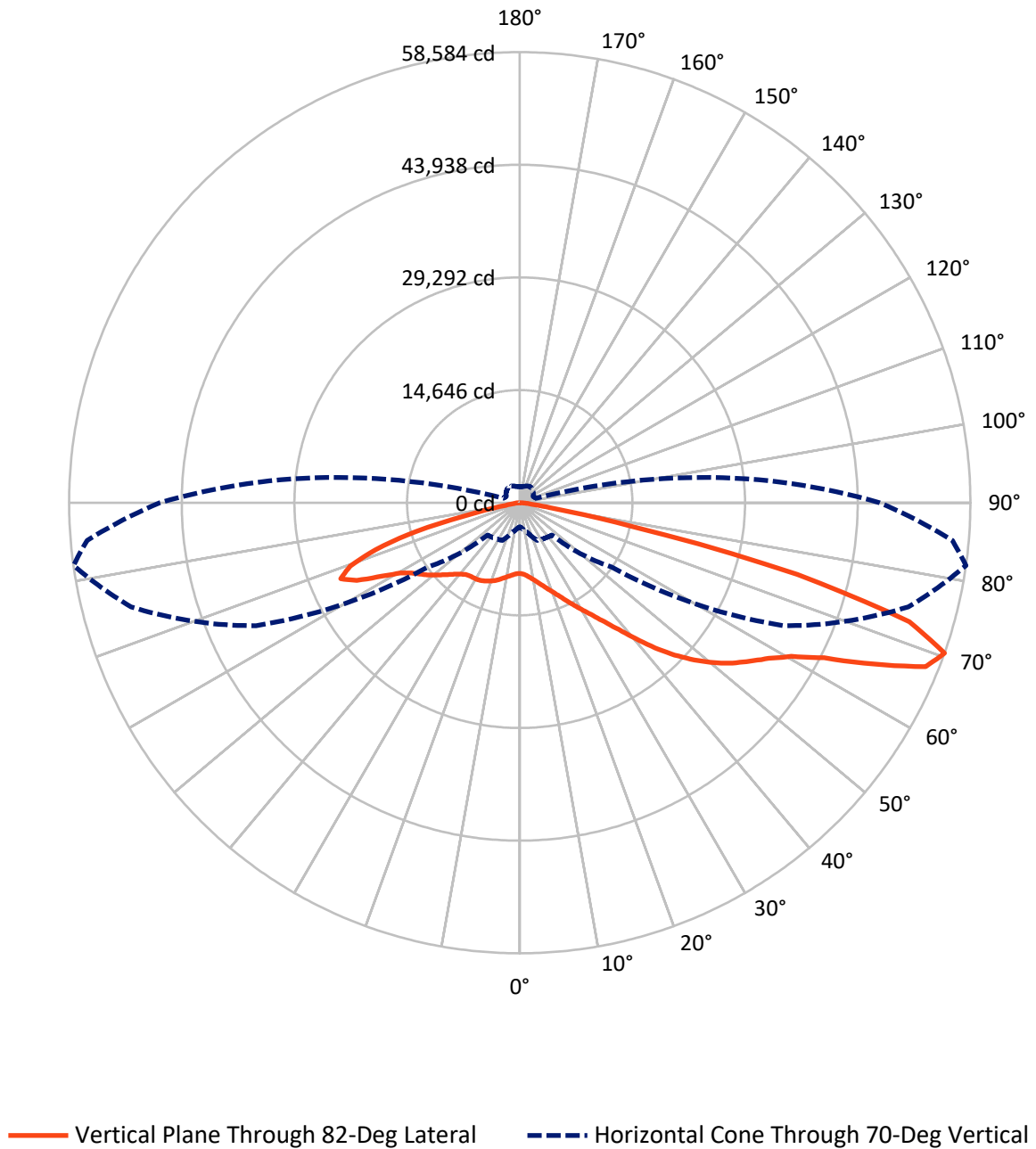


Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15454.9	0.0	15454.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	47236.1	0.0	47236.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	62691.0	0.0	62691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.8	1.4
10°-20°	2493.3	4.0
20°-30°	4171.0	6.7
30°-40°	6516.2	10.4
40°-50°	10377.9	16.6
50°-60°	14442.1	23.0
60°-70°	15107.0	24.1
70°-80°	7895.8	12.6
80°-90°	819.9	1.3
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°	62691.0	100.0
0°-180°	62691.0	100.0

Coefficient of Utilization



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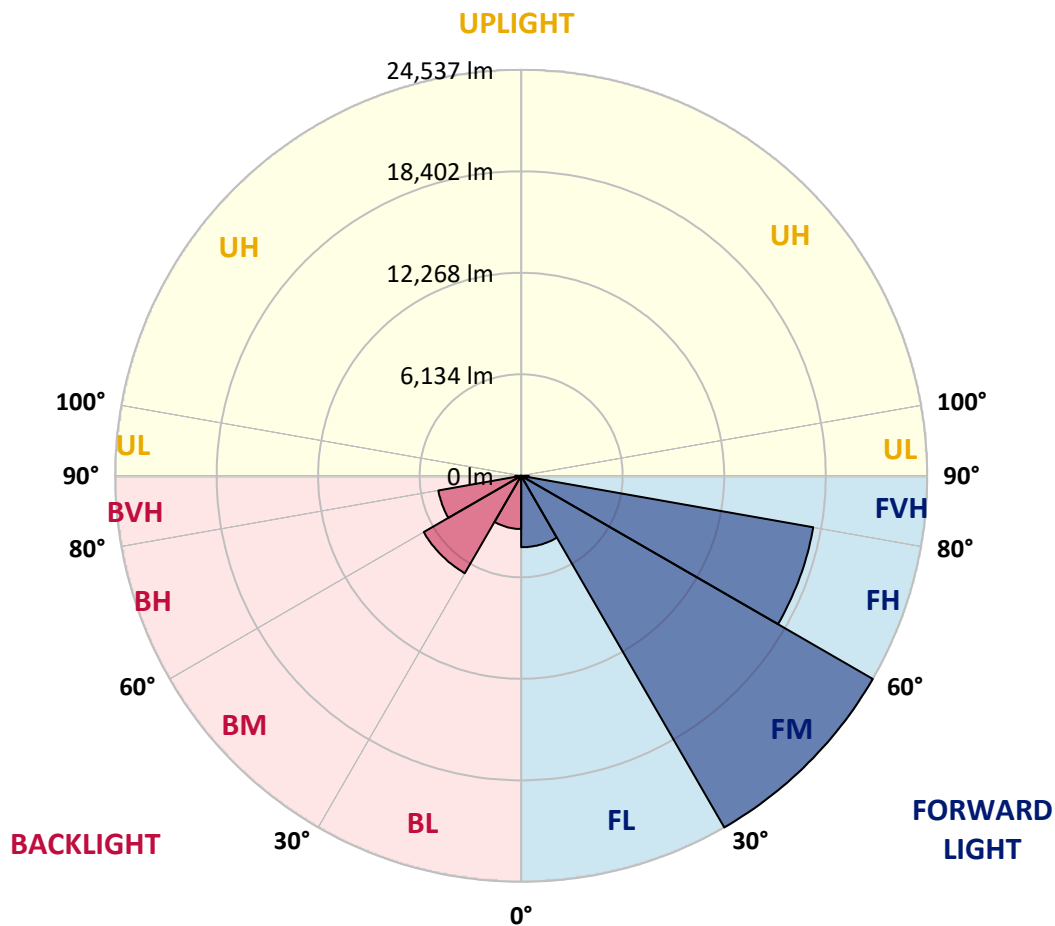
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4317.0	6.9			
FM	(30°-60°)	24536.6	39.1			
FH	(60°-80°)	17923.6	28.6			G5
FVH	(80°-90°)	459.0	0.7			G3/500
BL	(0°-30°)	3215.2	5.1	B4/5000		
BM	(30°-60°)	6799.5	10.8	B4/8500		
BH	(60°-80°)	5079.2	8.1	B5		G5
BVH	(80°-90°)	360.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3
2.5°	9410.8	9464.1	9447.4	9430.8	9430.8	9407.5	9404.2	9370.9	9344.3	9301.1	9291.1
5°	9530.6	9587.1	9580.5	9593.8	9637.0	9647.0	9657.0	9637.0	9583.8	9530.6	9507.3
7.5°	9424.1	9487.3	9507.3	9587.1	9720.2	9840.0	9929.8	9966.4	9916.5	9840.0	9803.4
10°	9064.9	9134.7	9204.6	9394.2	9630.4	9913.1	10152.7	10295.7	10285.7	10212.5	10149.3
12.5°	8336.4	8409.5	8559.2	8928.5	9360.9	9859.9	10305.7	10605.1	10708.2	10655.0	10545.2
15°	7754.2	7817.4	7930.5	8309.7	8871.9	9630.4	10362.2	10944.4	11207.2	11177.2	11044.2
17.5°	7737.6	7764.2	7834.0	8013.7	8446.1	9271.1	10302.4	11277.0	11779.3	11776.0	11609.7
20°	8030.3	8040.3	8080.2	8116.8	8363.0	8998.3	10149.3	11553.1	12421.4	12421.4	12241.7
22.5°	8436.2	8429.5	8469.4	8436.2	8555.9	8975.1	10052.9	11796.0	13136.6	13189.8	12963.6
25°	9044.9	9011.7	9001.7	8925.2	8948.4	9191.3	10159.3	12072.1	13984.9	14094.6	13811.9
27.5°	9856.6	9803.4	9766.8	9590.5	9530.6	9637.0	10485.3	12404.7	14929.6	15119.2	14759.9
30°	10914.4	10818.0	10764.7	10458.7	10242.5	10259.1	10977.6	12847.2	15917.6	16223.6	15767.9
32.5°	12358.2	12208.5	12065.4	11563.1	11167.3	11037.5	11613.0	13459.3	16988.7	17477.7	16892.3
35°	13974.9	13855.1	13702.1	12927.0	12318.3	12018.9	12471.3	14314.2	18242.9	19017.9	18256.2
37.5°	15531.7	15428.6	15501.8	14457.2	13672.2	13236.4	13595.6	15461.8	19789.7	20934.0	19966.0
40°	17141.8	17061.9	17071.9	16073.9	15159.1	14670.1	14959.5	16902.2	21562.8	23212.7	22021.8
42.5°	18891.5	18831.7	18632.1	17747.2	16719.3	16263.6	16529.7	18565.5	23465.6	25807.5	24277.2
45°	20850.9	20814.3	20628.0	19613.4	18435.8	17923.5	18282.8	20401.8	25378.3	28249.1	26542.6
47.5°	22544.1	22574.0	22550.7	21695.8	20475.0	19723.2	20152.3	22317.9	27158.0	30544.5	28714.9
50°	23359.1	23515.5	23745.0	23478.9	22720.4	21955.3	22038.5	24167.5	28854.6	32696.8	30797.3
52.5°	22933.3	23229.4	23854.8	24280.6	24573.3	24413.6	24190.7	26003.7	30451.3	34639.5	32766.6
55°	21346.5	21762.4	22800.2	23828.1	25321.8	26482.7	26775.5	28039.6	32008.2	36349.3	34629.5
57.5°	18455.8	19131.0	20062.5	22141.6	24656.5	27484.0	29789.3	30863.8	33658.1	38175.6	36578.9
60°	13499.2	14404.0	15561.6	18655.3	22327.9	26948.5	32354.1	35201.7	36003.4	40540.8	39117.0
62.5°	8639.1	9197.9	10262.4	13176.5	17397.9	24204.0	33139.2	40623.9	39978.6	44419.6	42922.6
65°	5914.6	6273.9	7248.6	8885.2	11247.1	18016.6	31036.8	44689.0	46292.4	50567.0	49429.4
67.5°	4297.9	4570.7	5402.3	6836.1	7328.4	10661.6	24084.3	44502.7	52429.9	56900.8	55131.1
70°	3133.6	3326.6	4025.1	5402.3	5638.5	5931.3	14590.3	37829.6	52296.8	58584.0	56465.0
72.5°	2321.9	2455.0	2924.0	4191.5	4564.0	4005.2	7222.0	27494.0	44938.5	52988.8	51288.9
75°	1679.9	1779.7	2125.7	3206.8	3652.6	3050.5	3602.7	16067.3	31346.2	37274.1	37573.5
77.5°	1284.1	1360.6	1586.8	2348.6	2924.0	2288.7	2235.4	7391.6	14863.1	14936.3	15774.5
80°	1031.2	1081.1	1204.2	1653.3	2242.1	1713.2	1457.0	2983.9	4697.1	3975.2	4171.5
82.5°	758.5	841.6	1017.9	1161.0	1603.4	1180.9	888.2	1506.9	1786.4	1536.9	1550.2
85°	432.5	489.0	615.4	831.6	1024.6	721.9	509.0	668.6	831.6	681.9	608.8
87.5°	153.0	199.6	216.2	326.0	445.8	299.4	196.3	192.9	272.8	202.9	169.7
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°	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3	9191.3
2.5°	9257.8	9241.2	9174.7	9084.8	8991.7	8901.9	8871.9	8808.7	8765.5	8742.2	8768.8
5°	9444.1	9390.9	9234.5	9034.9	8825.4	8599.2	8439.5	8293.1	8186.7	8086.9	8126.8
7.5°	9710.2	9617.1	9347.6	8998.3	8625.8	8249.9	7970.4	7757.5	7614.5	7521.4	7541.3
10°	10019.6	9876.6	9464.1	8941.8	8366.3	7827.4	7498.1	7315.1	7225.3	7175.4	7188.7
12.5°	10375.5	10172.6	9583.8	8812.1	7970.4	7355.0	7128.8	7075.6	7078.9	7082.2	7088.9
15°	10814.6	10531.9	9680.3	8529.3	7454.8	6992.4	6952.5	7039.0	7128.8	7172.1	7168.7
17.5°	11310.3	10911.1	9696.9	8063.6	6949.2	6759.6	6886.0	7072.3	7208.7	7268.5	7281.8
20°	11842.6	11297.0	9577.2	7404.9	6533.4	6570.0	6796.2	7035.7	7185.4	7261.9	7281.8
22.5°	12451.3	11709.5	9291.1	6713.0	6194.1	6363.7	6629.8	6862.7	7019.0	7095.6	7115.5
25°	13146.6	12171.9	8842.0	6130.8	5901.3	6130.8	6397.0	6589.9	6716.3	6786.2	6806.1
27.5°	13918.3	12654.2	8243.2	5668.5	5645.2	5891.3	6110.9	6260.6	6327.1	6380.3	6400.3
30°	14693.4	13093.3	7518.0	5319.2	5422.3	5655.2	5811.5	5878.0	5898.0	5908.0	5931.3
32.5°	15531.7	13472.6	6756.2	5029.8	5209.4	5425.6	5518.8	5548.7	5455.6	5392.4	5412.3
35°	16546.3	13878.4	6011.1	4800.2	4999.8	5186.1	5216.0	5189.4	5079.7	4949.9	4956.6
37.5°	17800.4	14384.0	5415.6	4637.2	4803.6	4926.6	4890.0	4883.4	4893.4	4740.3	4750.3
40°	19337.3	15042.7	4979.9	4510.8	4643.9	4670.5	4567.4	4623.9	4673.8	4441.0	4447.6
42.5°	21043.8	15837.8	4703.8	4424.3	4510.8	4447.6	4287.9	4351.1	4344.5	4038.4	4035.1
45°	22783.6	16702.7	4607.3	4361.1	4387.7	4261.3	4085.0	4101.6	3961.9	3685.8	3695.8
47.5°	24513.4	17630.8	4667.2	4307.9	4234.7	4091.7	3955.3	3882.1	3675.8	3469.6	3469.6
50°	26210.0	18605.4	4886.7	4201.4	4025.1	3942.0	3842.2	3712.4	3492.9	3316.6	3303.3
52.5°	27783.4	19586.8	5132.9	4025.1	3762.3	3812.2	3749.0	3599.3	3383.1	3203.5	3206.8
55°	29273.7	20568.1	5229.4	3782.3	3516.2	3699.1	3662.5	3386.4	3127.0	2980.6	2967.3
57.5°	30897.1	21749.0	5122.9	3472.9	3316.6	3569.4	3429.7	3123.6	2973.9	2864.2	2854.2
60°	33145.8	23601.9	4893.4	3090.4	3127.0	3376.5	3136.9	3010.5	2847.5	2724.5	2717.8
62.5°	36881.6	27058.2	4524.1	2711.1	2904.1	3090.4	2997.2	2870.8	2704.5	2584.7	2584.7
65°	42403.7	31861.8	3828.9	2415.1	2654.6	2810.9	2847.5	2721.1	2548.1	2421.7	2428.4
67.5°	47060.8	34875.7	2897.4	2168.9	2398.4	2584.7	2687.9	2564.8	2381.8	2258.7	2262.1
70°	46804.7	32686.8	2212.2	1926.1	2172.2	2361.9	2494.9	2398.4	2202.2	2085.8	2095.7
72.5°	41572.0	27344.3	1789.7	1679.9	1942.7	2129.0	2288.7	2215.5	2015.9	1902.8	1902.8
75°	30541.1	19410.5	1430.4	1430.4	1656.6	1886.2	2062.5	2015.9	1832.9	1753.1	1729.8
77.5°	12873.8	8143.4	1121.1	1187.6	1377.2	1620.0	1839.6	1856.2	1696.5	1796.3	1630.0
80°	3423.0	2245.4	854.9	934.8	1081.1	1337.3	1600.1	1593.4	1420.4	1327.3	1234.2
82.5°	1304.0	884.9	608.8	658.7	781.7	1024.6	1267.4	1307.3	1134.4	981.3	981.3
85°	502.3	379.2	375.9	395.9	455.7	678.6	958.0	991.3	854.9	725.2	748.5
87.5°	129.7	113.1	139.7	133.1	209.6	362.6	548.9	568.8	522.3	302.7	432.5
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)